ORDER NO. MD0006100C1

B12

Service Manual

DVD Player

DVD-CV50

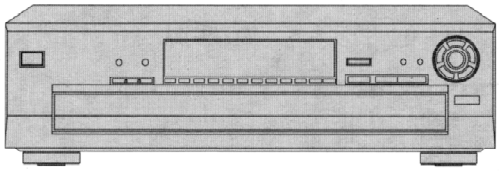
Colour

(K)... Black

Area

(U)... U.S.A.

(CA)... Canada



SPECIFICATIONS

Specification

Power requirements:	**AC 120V, 60Hz**
Power consumption:	**16W**
Dimensions:	**1615/16” (W) x 1411/16” (D) x 415/16 ” (H)** **[430 (W) x 373 (D) x 125 (H) mm]** **(excluding protrusions)**
Mass:	**11.2lb. (5.1kg)**
Signal system:	**NTSC**
Operating temperature range:	**+41 to +95°F (+5 to +35°C)**
Operating humidity range:	**5 to 90% RH (no condensation)**

Discs played:

(1) DVD-Video disc:

5” (12cm) single-sided, single-layer
5” (12cm) single-sided, dual-layer
5” (12cm) double-sided, single-layer
3” (8cm) single-sided, single-layer
3” (8cm) single-sided, dual-layer
3” (8cm) double-sided, single-layer

(2) Compact disc (CD-DA, Video CD):

5” (12cm) disc
3” (8cm) disc

Video output:

Output level:	**1Vp-p (75 Ω)**
Output terminal:	**Pin jack (1 system)**

S video output:

Y output level:	**1Vp-p (75 Ω)**
C output level:	**0.286Vp-p (75 Ω)**
Output terminal:	**S terminal (1 system)**

Component video output:

Y output level:	**1Vp-p (75 Ω)**
PB output level:	**0.7Vp-p (75 Ω)**
PR output level:	**0.7Vp-p (75 Ω)**
Output terminal:	**Pin jack** **(Y:green, PB:blue, PR:red)**

Audio output:

Output level:	**2Vrms (1kHz, 0dB)**
Output terminal:	**Pin jack**
Mix output (L/R):	**1 system**
5.1ch discrete output (5.1ch):	**1 system**

Audio signal output characteristics:

(1) Frequency response:

● DVD (linear audio):	**4Hz-22kHz (48 kHz sampling)** **4Hz-44kHz (96 kHz sampling)**
● CD audio:	**4Hz-20kHz (EIAJ)**

(2) S/N ratio:

● CD audio:	**115dB (EIAJ)**

(3) Dynamic range:

● DVD (linear audio): 102dB

● CD audio: 98dB (EIAJ)

(4) Total harmonic distortion:

● CD audio: 0.0025% (EIAJ)

Digital audio output:

Optical digital output: Optical terminal

Coaxial digital output: Pin jack

Pickup:

Wave length: 665nm

Laser power: CLASS II

Power consumption in standby mode: approx. 2.0W

Note:

1. Specifications are subject to change without notice.
Mass and dimensions are approximate.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

1. Safety Precautions

1.1. General Guidelines

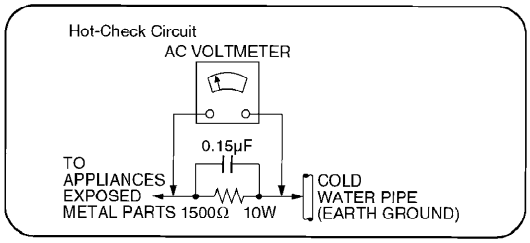
1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the

equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω .
When the exposed metal does not have a return path to the chassis, the reading must be ~.

Figure 1



1.1.2. Leakage Current Hot Check / (See Figure 1)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in paraller with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**
3. **Use an AC voltmeter, with 1000 phms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is out of the limits specified, there is apossibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

2. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip”

components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a condictive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brusing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to**

damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

CAUTION :

This unit utilizes a class 1 laser.
Invisible laser radiation is emitted from the optical pickup lens.
When the unit is turned on :

1. **Do not look directly into the pick up lens.**
2. **Do not use optical instruments to look at the pick up lens.**
3. **Do not adjust the preset variable resistor on the pickup lens.**
4. **Do not disassemble the optical pick up unit.**
5. **If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.**
6. **Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN TH
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. Handling Precaution for Traverse Deck

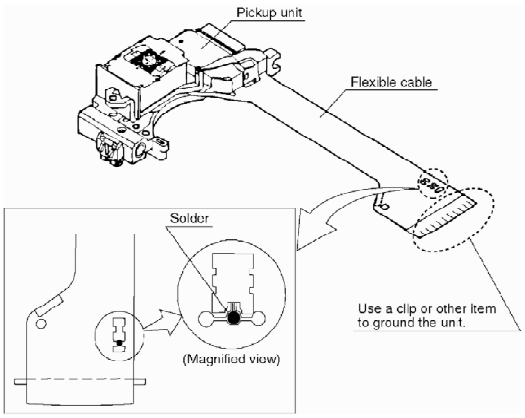
The laser diode in the optical pickup may break down due to potential difference caused by static electricity of clothes or human body.
So be careful of electrostatic break down during repair of the optical pickup.

4.1. Handling of optical pickup

1. **Do not subject the optical pickup to static electricity as it is extremely sensitive to electrical shock.**
2. **To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FPC Board). When**

removing or connecting the short pin, finish the job in as short time as possible.

3. **Take care not to apply excessive stress to the flexible board (FPC).**
4. **Do not turn the variable resistor (laser power adjustment). It has already been adjusted.**

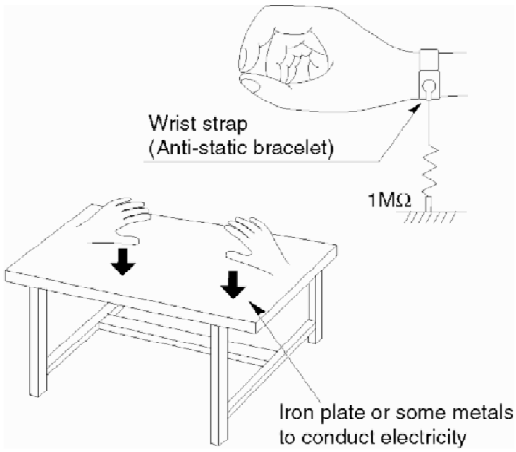


4.2. Grounding for electrostatic breakdown prevention

1. **Human body grounding**
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. **Work table grounding**
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).



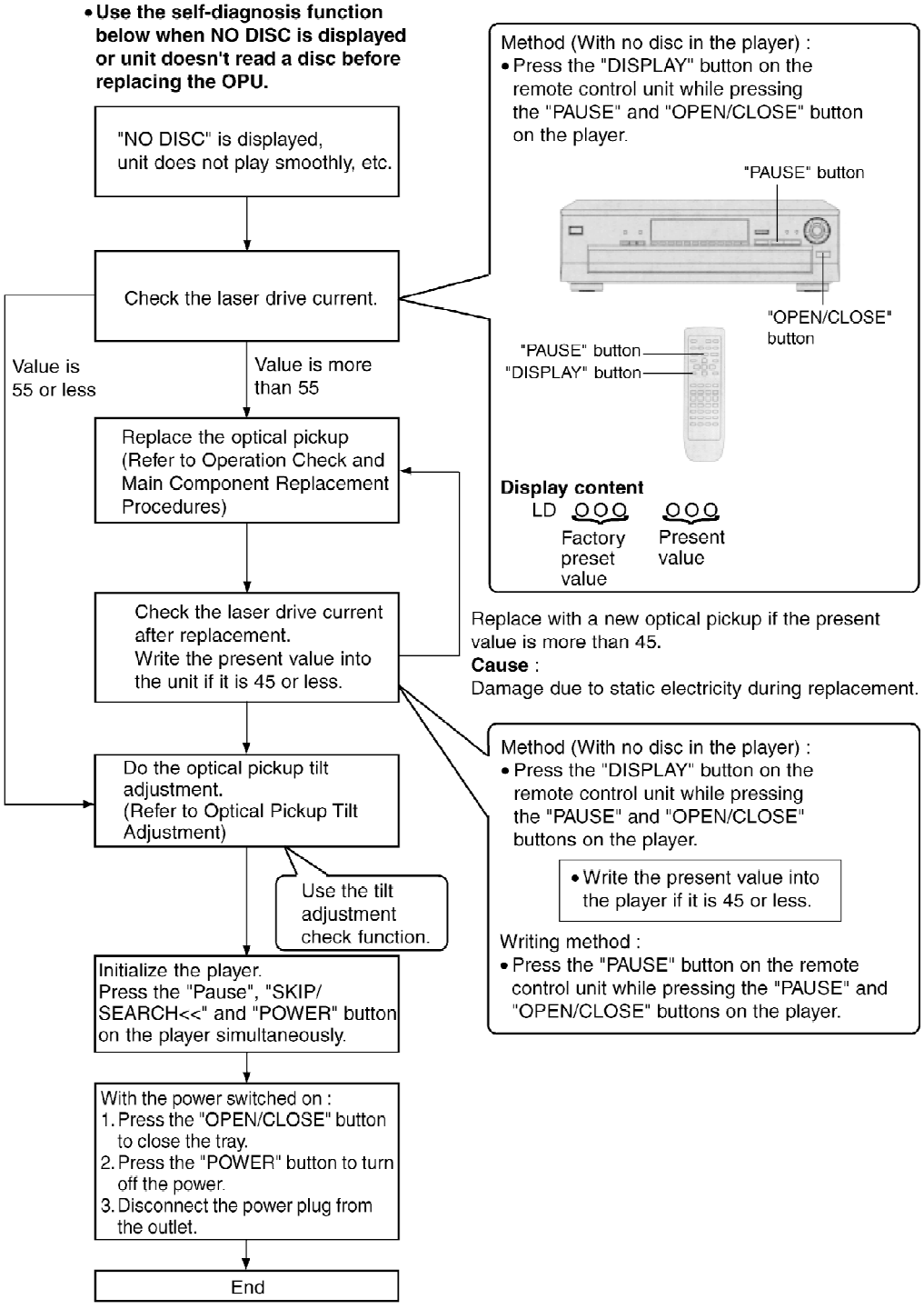
5. Optical Pickup Self-Diagnosis and Replacement Procedure

The optical pickup self-diagnosis function and tilt adjustment check function have been newly added to this player. When repairing, use the following procedure for effective Self-diagnosis and tilt adjustment.

Be sure to use the self-diagnosis function before replacing the optical pickup when "NO DISC" is displayed. As a guideline, you should replace the optical pickup when the value of the laser drive current is more than 55.

Note

Press the power button to turn on the power and check the value before the unit warms up (within three minutes).


• Use the self-diagnosis function below when NO DISC is displayed or unit doesn't read a disc before replacing the OPU.
"NO DISC" is displayed, unit does not play smoothly, etc.
Check the laser drive current.
Value is 55 or less
Value is more than 55
Replace the optical pickup (Refer to Operation Check and Main Component Replacement Procedures)
Check the laser drive current after replacement. Write the present value into the unit if it is 45 or less.
Do the optical pickup tilt adjustment. (Refer to Optical Pickup Tilt Adjustment)
Use the tilt adjustment check function.
Initialize the player. Press the "Pause", "SKIP/ SEARCH<<" and "POWER" button on the player simultaneously.
With the power switched on :
1. Press the "OPEN/CLOSE" button to close the tray.
2. Press the "POWER" button to turn off the power.
3. Disconnect the power plug from the outlet.
End
Method (With no disc in the player) :
• Press the "DISPLAY" button on the remote control unit while pressing the "PAUSE" and "OPEN/CLOSE" button on the player.
"PAUSE" button
"OPEN/CLOSE" button
"PAUSE" button
"DISPLAY" button
Display content
LD
Factory preset value
Present value
Replace with a new optical pickup if the present value is more than 45.
Cause :
Damage due to static electricity during replacement.
Method (With no disc in the player) :
• Press the "DISPLAY" button on the remote control unit while pressing the "PAUSE" and "OPEN/CLOSE" buttons on the player.
• Write the present value into the player if it is 45 or less.
Writing method :
• Press the "PAUSE" button on the remote control unit while pressing the "PAUSE" and "OPEN/CLOSE" buttons on the player.

6. Self-Diagnosis Function and Service Modes

6.1. Service Mode Table

The service modes can be activated by pressing various button combination on the player and remote control unit.

Player buttons	Remote control unit buttons	Application	N
/ / / / / / / / / PAUSE / + / OPEN/ CLOSE	0	Displaying the UHF display F_ _ _	Refer to s Self-Diagr Function Display).
	5	Jitter check, tilt adjustment / *Display shows JITXXX OOO / The 3 digit number (JITXXX) indicates the Jitter rate (JIT088=8.8%) / The 3 digit number OOO at the right of JITXXX displays an error counter (increases as errors occur) but does not neccessarily mean picture/playback problems will occur. (This number is not as important as the JITXXX) Refer to section 11.13 for Optical Pickup Tilt Adjustment Procedure.	Refer to s 11.13 Opti Pickup Til Adjustme
	6	Checking the region numbers and broadcast system	
	7	Checking the program version	Check the FLASH RO program.
	9	Lighting Confirmation Function of Display Tube	
	DISPLAY	Checking the laser drive current	Refer to s Optical Pi Dianosis Replacem Procedur
	PAUSE	Writing the laser drive current value after replacing the optical pickup (do not use for anything other than optical pickup replacement)	
PAUSE / SKIP/ SEARCH<< / OPEN/ CLOSE		Initializing the DVD player / (restoring factory preset settings) / *Use when replacing a microprocessor, microprocessor peripheral, or P.C.B.	Refer to s 10.1 Initia DVD palyo

6.2. Self-Diagnosis Function (UHF Display)

This unit incoporates a convenient self-diagnosis function use for troubleshooting.

Display method	Display	Diagnosis	Checkpoints
Service numbers displayed during use	CHECK THE DISC	Focus error	IC2001, IC2511, IC5201
	H01	Tray loading error	IC2001, IC2511, loading
	H02	Spindle servo error	Spindle motor, IC2501,
	H03	Traverse error	Stepping motor, IC251
	H04	Tracking servo error	IC2001, IC2501, IC5201 disc
	H05	Seek error	Stepping motor, IC251
	H06	Power supply error	IC1125, IC1151, IC6001
Press the “0” button on the remote control unit while pressing the “PAUSE” and “OPEN/ CLOSE” buttons on the player	F0**	Disc format error	If this type of error occ to section 6.3 Example Repairs Using Error Co
	F1**	Disc code error	
	F2**	Decoder LSI error	
	F3**	SDRAM error	
	F4**	IIC bus error	
	F5**	DSC	
	F6**	ECC error	
	F7**	Microprocessor error	
	F8**	Microprocessor error	

6.3. Examples of Repairs Using Error Codes

Refer to this section when carrying out repairs.

Error display	Malfunction example
F0**	Disc, IC7001
F103	Disc, IC7001
F4FF	IC6001
F500	Optical pickup, IC2001, IC5201, IC2511, IC2501
F501	IC2001, IC6201
F502	IC2501, IC2511, IC2001, IC5201
F504	IC5201, IC2001
F505	Disc, IC2501, IC2511, IC5201, IC2001
F506	Disc, Optical pickup, IC2001
F600	Disc, IC7001, IC5201, IC2001
F601	Disc, IC7001
F602	Disc, IC5201, IC2001
F603	Disc, IC5201, IC2001
F610	IC7001
F611	IC7001, IC5201, IC2001
F612	IC7001, IC5201, IC2001
F620	Laser drive circuit
F621	Laser drive circuit
F700	IC6201
F701	IC6201
F702	IC6201
F880	IC6201
F890	IC6201
F891	IC6201
F8A0	IC6201
F893	IC6302
F894	IC6303

6.4. Sales Demonstration Lock Function

This function prevents discs from being lost when the unit is used for sales demonstrations, by disabling the disc eject function. “LOCKED” is displayed on the unit, and ordinary operation is disabled.

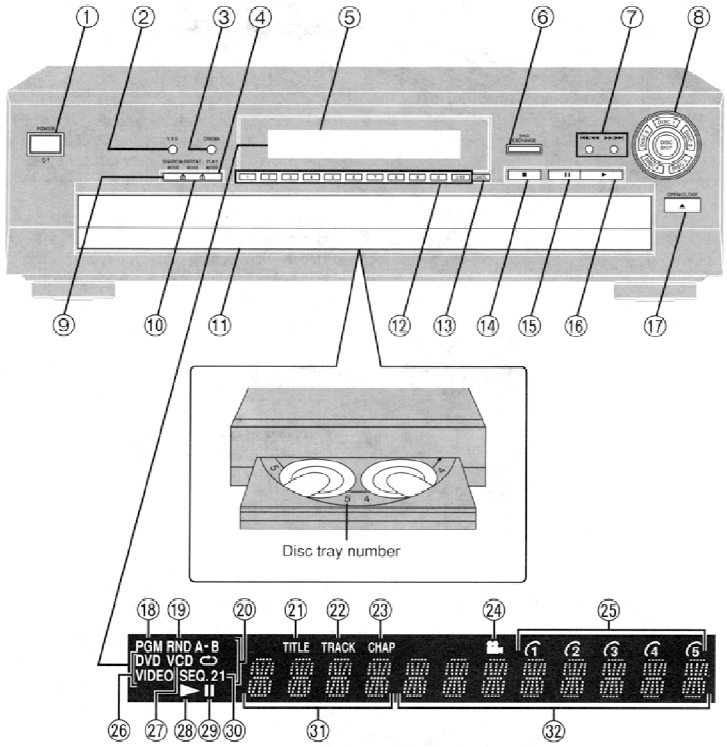
6.4.1. Setting Method

The sales demonstration lock function is set by simultaneously pressing the “POWER” button of DVD player on the remote control unit and the “STOP” button on the main unit. (“LOCKED” is displayed when the lock function is engaged.)

6.4.2. Release Method

The function can be released using the same procedure as for setting. If the remote control unit is not on hand, the function can be released by using the same method as for player initialization (pressing the “PAUSE”, “SKIP/SEARCH<<“ and “OPEN/CLOSE” buttons simultaneously).

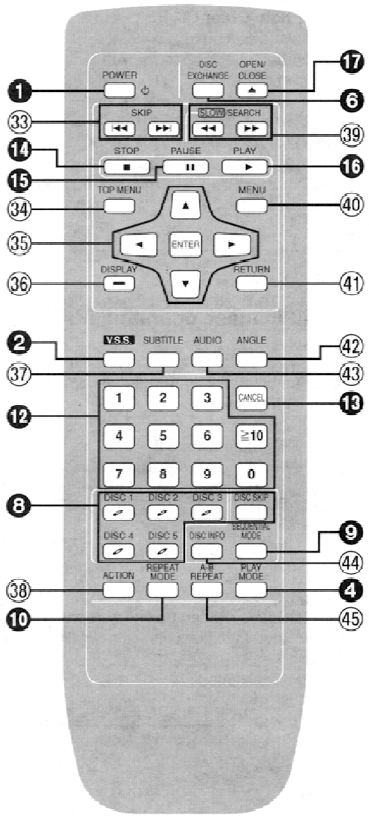
7. Operation Procedure



Main unit

① **Power button (POWER, ⏻/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
② **Virtual Surround Sound button/indicator (V.S.S.)**
③ **Cinema button/indicator (CINEMA)**
④ **Play mode button (PLAY MODE)**
⑤ **FL display**
⑥ **Disc exchange button (DISC EXCHANGE)**
⑦ **Skip/Search buttons (⏮/◀◀, ▶▶/⏭)**
⑧ **Disc 1–5 buttons/indicators, Disc skip button (DISC 1–5 , DISC SKIP)**
⑨ **Sequential mode button (SEQUENTIAL MODE)**
⑩ **Repeat mode button (REPEAT MODE)**
⑪ **Drawer**
⑫ **Numeric buttons (1–9, 0, ≧10)**
•To select a 2-digit number
Example: To select track 23
Press [≧10], then [2] and [3].
⑬ **Cancel button (CANCEL)**
⑭ **Stop button (■)**
⑮ **Pause button (❚❚)**
⑯ **Play button (▶)**

⑰ **Drawer open/close button (⏏ OPEN/CLOSE)**
⑱ **Illuminates during program play.** VCD CD
⑲ **Illuminates during random play.** VCD CD
⑳ **Illuminates during repeat play.**
SEQ. 1: Repeat mode in sequential mode 1
SEQ. 2: Repeat mode in sequential mode 2 VCD CD
A-B : A-B repeat play
㉑ **Illuminates during play of a title.** DVD
㉒ **Illuminates during play of a track.** VCD CD
㉓ **Illuminates during play of a chapter.** DVD
㉔ **Illuminates when you can change the angle.** DVD
㉕ **Illuminates disc tray number/disc number in the play position.**
㉖ **Illuminates when the unit reads a DVD.**
㉗ **Illuminates when the unit reads a Video CD or CD.**
㉘ **Illuminates during play.**
Flashes when the RESUME function is ON.
㉙ **Illuminates in the still picture (pause) mode.**
㉚ **Illuminates when sequential mode 1 or 2 is selected.**
㉛ **Shows the Title/chapter number** DVD
Shows the Track number VCD CD
㉜ **Shows the elapsed play time from the start of the title/track during play**

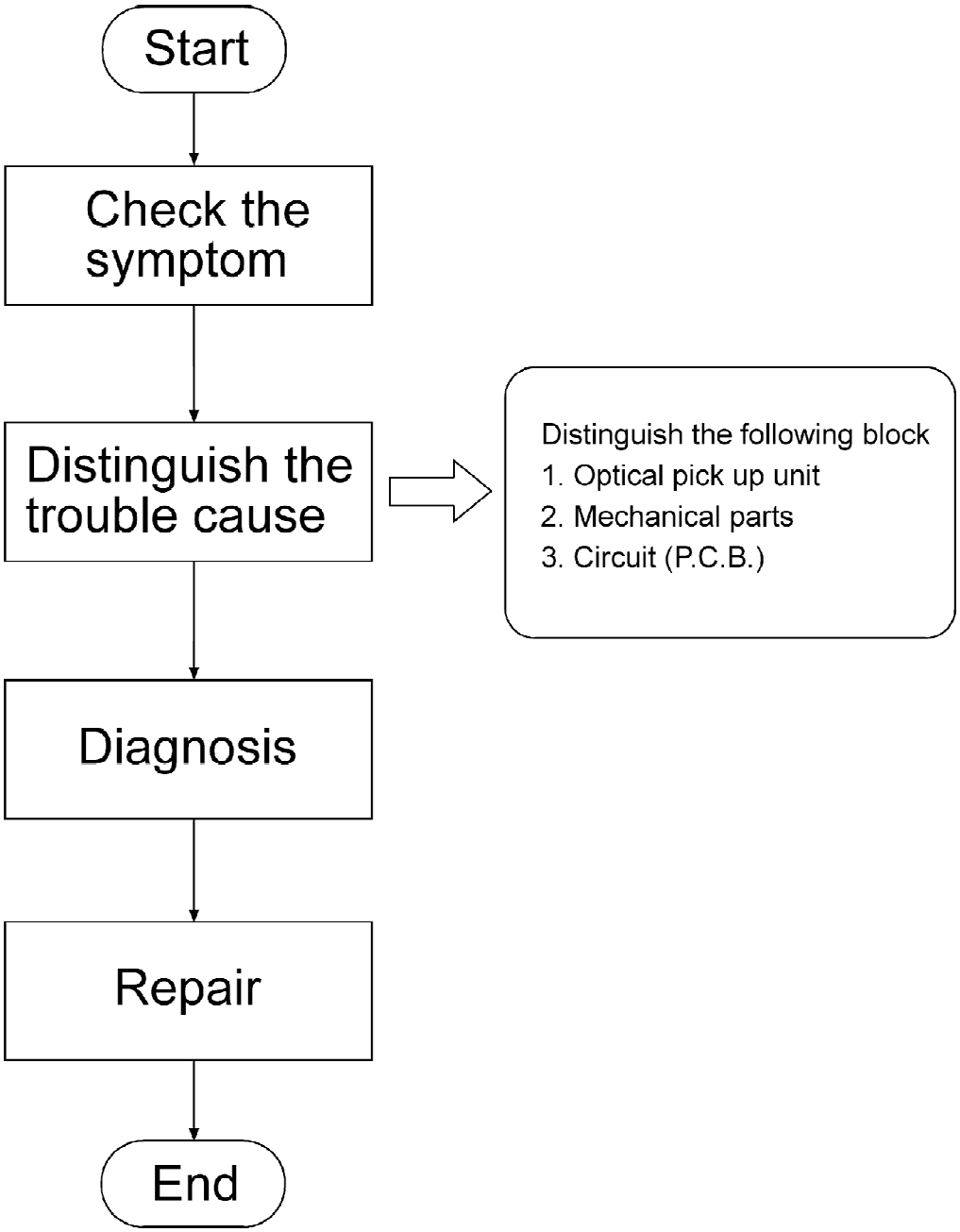


Buttons such as ❶ function in exactly the same way as the buttons on the main unit.

Remote control

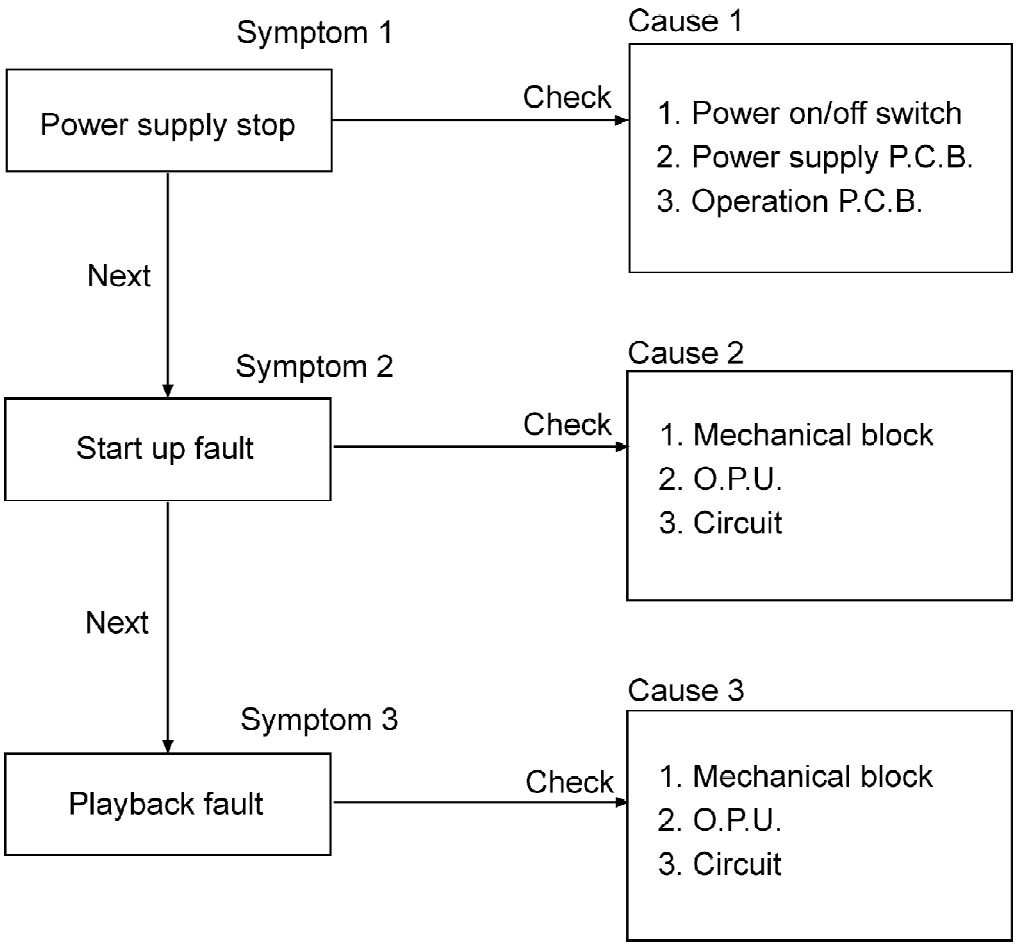
㉝ Skip buttons (⏮, ⏭ SKIP)
㉞ Top menu button (TOP MENU)
㉟ Cursor buttons (▲, ▼, ◄, ►)/
Enter button (ENTER)
㊱ Display button (DISPLAY)
㊲ Subtitle button (SUBTITLE)
㊳ Action button (ACTION)
㊴ Slow/Search buttons (◄◄, ►► SLOW/SEARCH)
㊵ Menu button (MENU)
㊶ Return button (RETURN)
㊷ Angle button (ANGLE)
㊸ Audio button (AUDIO)
㊹ Disc information button (DISC INFO)
㊺ A-B repeat button (A-B REPEAT)

8. Procedure for reparing the set



8.1. Distinguish the trouble cause

• Check flow



How to distinguish the trouble

1. View mechanical part if visual damage occurred.
Confirm the movement of mechanical parts assembly (tray ass'y, loading mechanism ass'y, etc.).

2. Diagnose if Optical Pickup Unit is faulty (refer to diagnosis of Optical Pickup Unit).

3. If mechanism and OPU are OK, it is P.C.B.

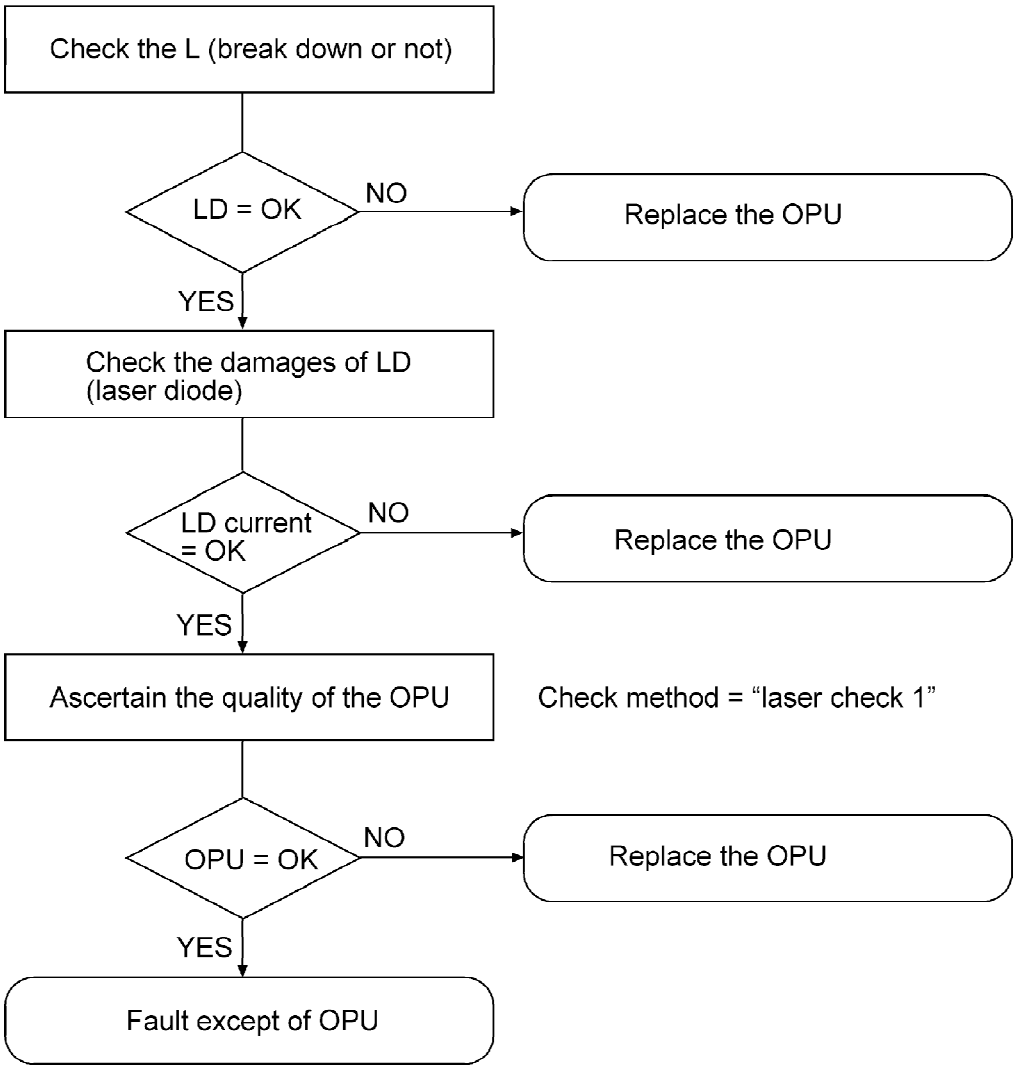
Cause 1	Possible fault
1. Power ON/OFF switch	Power switch, connector cable
2. Power supply P.C.B.	D1011, T1021, Q1051 etc.
3. Operational P.C.B.	CPU (IC6001), X6001, IC6002 etc.

Cause 2	Possible fault
1. Mechanical block	Tray and loading mechanical block, traverse
2. O.P.U.	Refer to the diagnosis of OPU
3. Circuit	LD drive, servo (Traverse, Focus, Tracking) Disc sensor Signal processing (FEP, ADSC etc.)

Cause 3	Possible fault
1. Mechanical block	Traverse block (Tilt adjustment)
2. O.P.U.	Refer to the diagnosis of OPU
3. Circuit	Servo (Focus, tracking) Signal processing (FEP, ODC, AVDEC, A-DAC etc.)

8.2. Diagnosis of Optical Pick-up Unit

Diagnosis Method
Diagnose the OPU by the following procedure



Note : When LD does not emit light after replacing the OPU, check the LD drive circuit in the module P.C.B.

How to distinguish Laser destruction/damage
Confirmation 1
Remove cover of mechanism block so that you will see the lens of optical pickup.
Confirm emission of laser at the moment when power switch is turned on.
If there is no laser emission, laser diode is faulty.
Confirmation 2
While holding "Pause" and "Open/Close" button, press "Display" button on the remote controller. Unit display laser current on FL.
From the reading of display, you can judge if laser diode is damaged or not.
Reading on the right side should be less than 70. If reading is more than 70, laser is damaged.

How to confirm if Optical Pickup is OK
Confirmation 1

1. **Confirmation of jitter value with test disc. (Refer below for how to check jitter)**
2. **Lens cleaning.**
3. **Reconfirm jitter value.**
4. **Perform tile adjustment. (Refer to tilt adjustment)**
5. **Reconfirm jitter value. (To confirm jitter value, while pressing "Pause" and "Open/Close" button, press numeric "5" on remote controller.)**
   Unit display jitter value on FL.

Confirmation 2
If servo is very unstable due to optical error and you cannot confirm jitter value, clean the lens and check appearance of pick up unit (cutting coil of actuator, etc), then check circuitry.

9. Operation Check and Main Component Replacement Procedures

"ATTENTION SERVICER"

Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For assembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

Contents

- Checking Procedure for each major P.C.B.
1. Checking of the Main, Panel, Deck and Power P.C.B.
- Main Component Replacement Procedures
1. Replacement of the Traverse Deck.

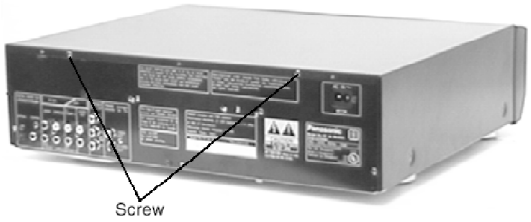
2. Replacement of the Power Amplifier IC.
- Disassembly and assembly of the Traverse Unit
- Disassembly and assembly of the Disc Tray

Warning :
This product uses a laser diode. Refer to caution statement Precaution of Laser Diode.

9.1. Disassembling the TopCover

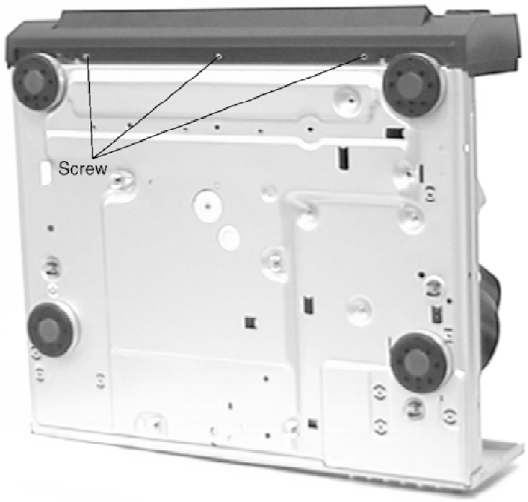
1. Remove the 4 screws.

2. Remove the 2 screws.



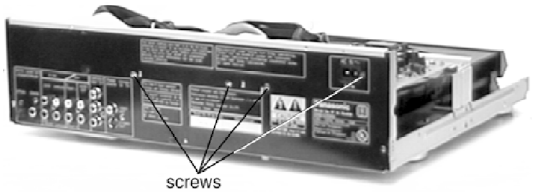
9.2. Disassembling the Front Panel

1. Remove the 3 screws.

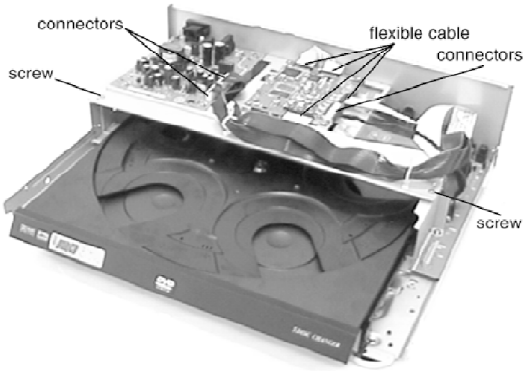


9.3. Disassembling the Tray Assembly

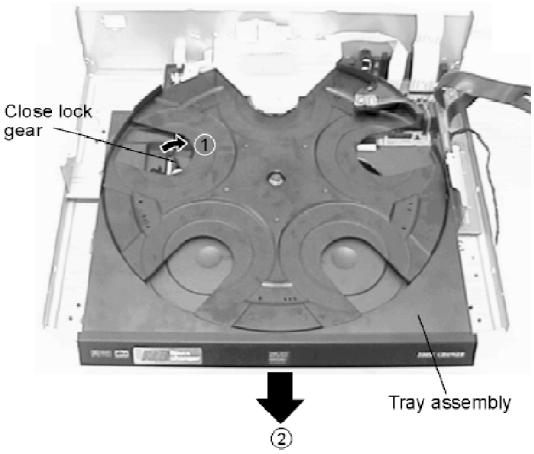
1. Remove 4 screws.



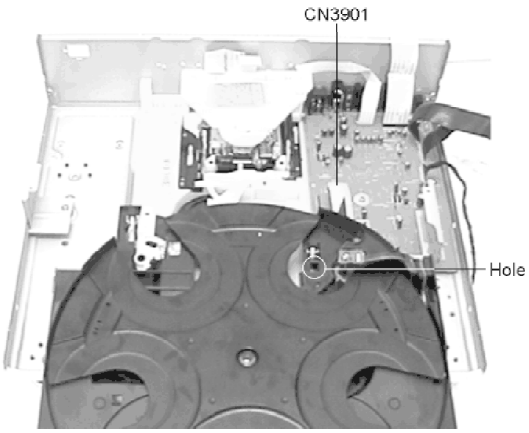
2. Remove 2 screws.
3. Remove 3 connectors.
4. Remove 4 FFC.



5. Keep the close lock gear pressed in the direction of arrow 1, and move the tray assembly in the direction of arrow 2.

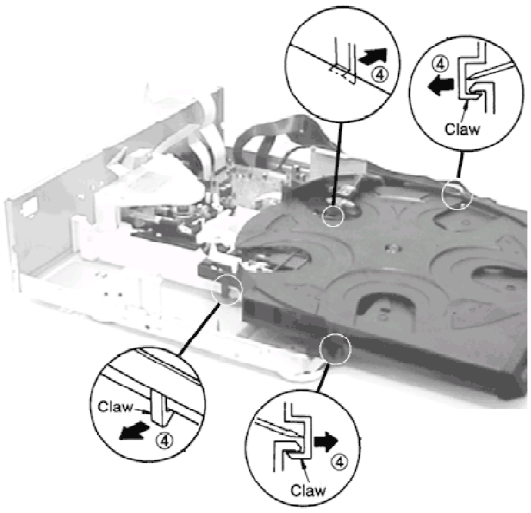


6. Pull out the FFC from connector CN3901.



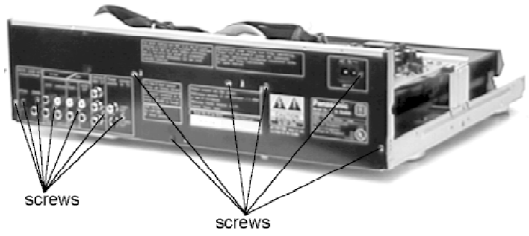
7. Push and release the 4 claws in the direction of arrow 3, and then remove the tray assembly

in the direction of arrow 4.



9.4. Disassembling the Rear Panel

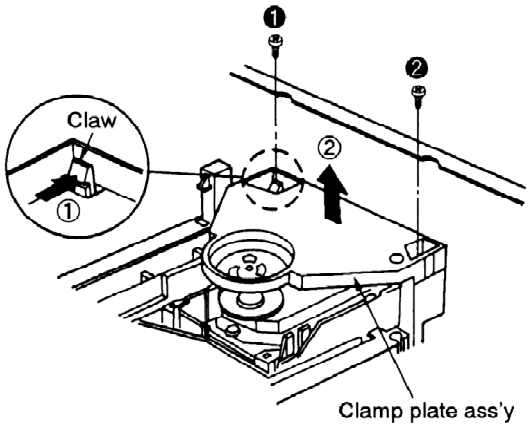
1. Remove 13 screws.



9.5. Disassembling the Clamp Plate Ass'y

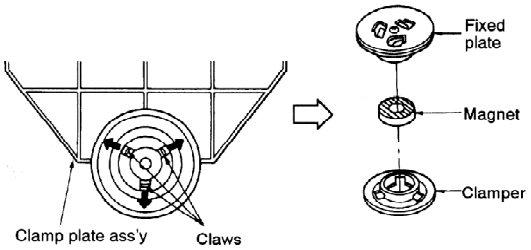
1. Remove 2 screws.

2. Push the claw in the direction of arrow 1, and then remove the clamp plate ass'y in the direction of arrow 2.



9.6. Disassembling the Fixed Plate, Magnet and Clamper

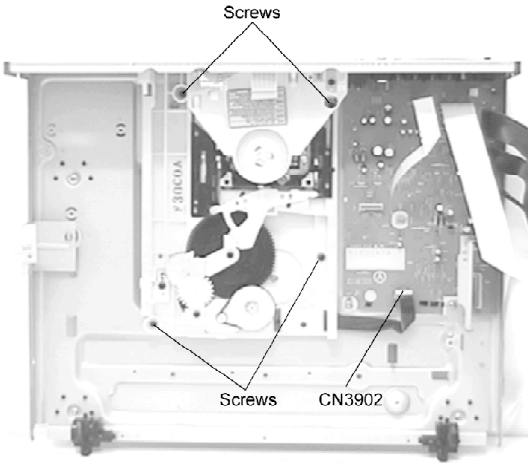
1. Release the 3 claws in the direction of arrow.



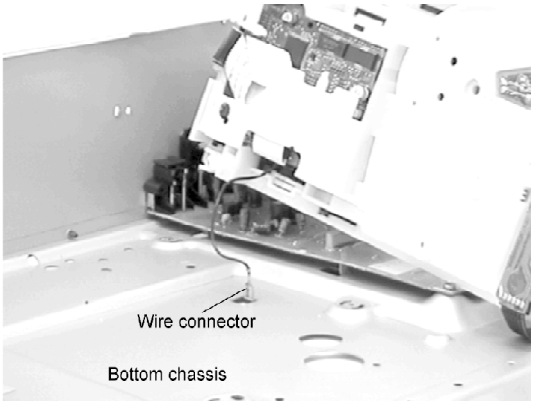
9.7. Disassembling the Loading Mechanism Ass'y

1. Remove the wire from connector CN3902.

2. Remove 4 screws.

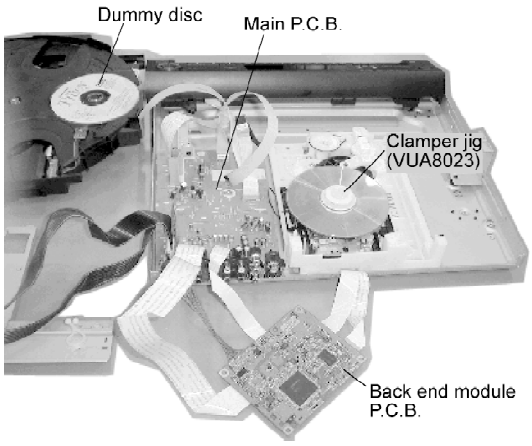


3. Remove the wire connector from the bottom chassis.

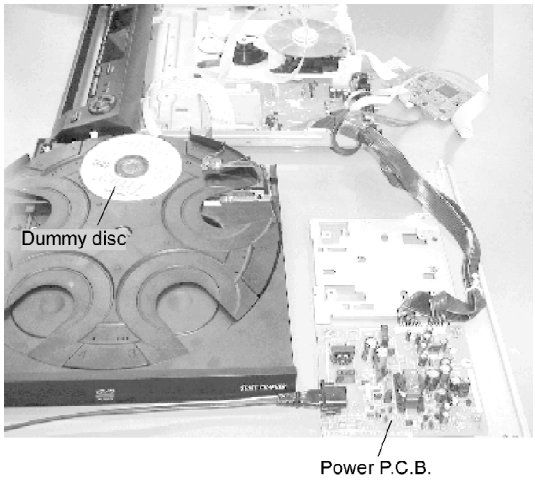


9.8. Checking for Back End Module P.C.B., Main P.C.B. and Power P.C.B.

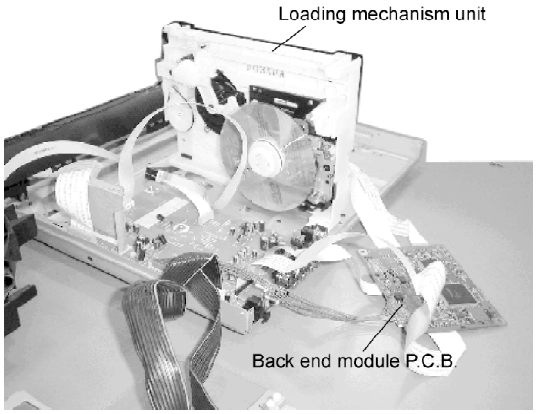
1. Set the dummy disc on the tray before playback the disc.

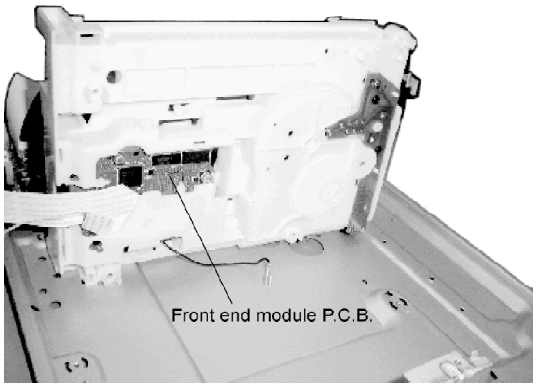


Extension cable (VUC8012) - Main P.C.B. and Tray P.C.B.



Service position for checking the Front End Module P.C.B.
First, playback the disc with Loading Mechanism block in normal position, then stand up the Loading Mechanism block vertically.
Extension cable (VUC8013) - Main P.C.B. and Loading Mechanism P.C.B.





10. Service Precautions

10.1. Initializing the DVD Player

Initialize the DVD player whenever you replace a microprocessor, microprocessor peripheral parts, module P.C.B. or main P.C.B.

10.1.1. Precautions

The customer settings will return to factory preset settings when the player is initialized. Make a note of the settings and reset them after initializing.

- When resetting, see the Initial Setting in the Operation Instruction.

10.1.2. Initialization Method

The player will be initialized (return to the factory preset condition) when you press the "PAUSE", "SKIP/SEARCH<<" and "OPEN/CLOSE" buttons simultaneously. When the DVD player is initialized, "Initialized" appears on the screen, it also displays "INITIALIZE".
Press them at least for three seconds after you confirmed the display.

10.2. Handling After Completing Repairs

Use the following procedure to secure the traverse unit in the standby position.

10.2.1. Method

With the power turned on:

1. Press the "OPEN/CLOSE" button to close the tray.

2. Press the "POWER" button to turn off the power.

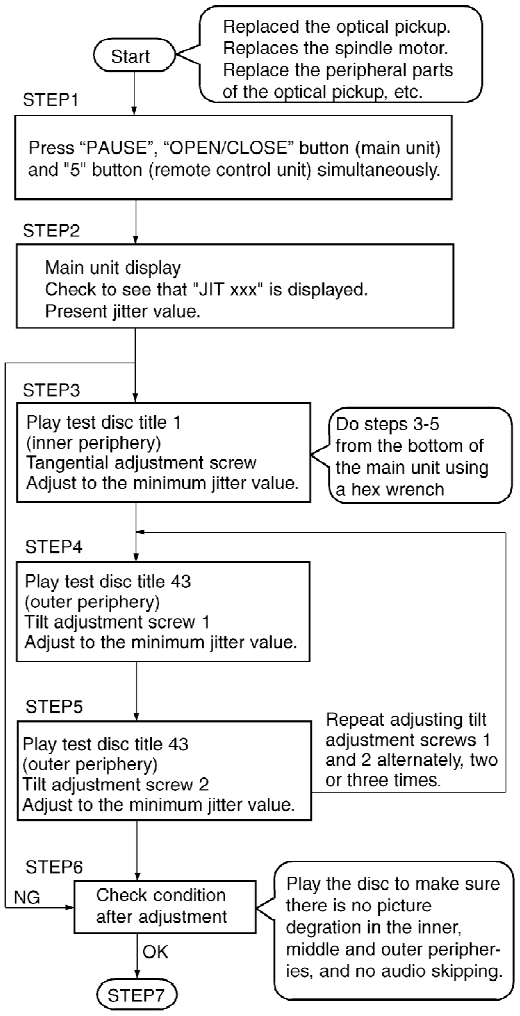
3. Disconnect the power plug from the outlet.

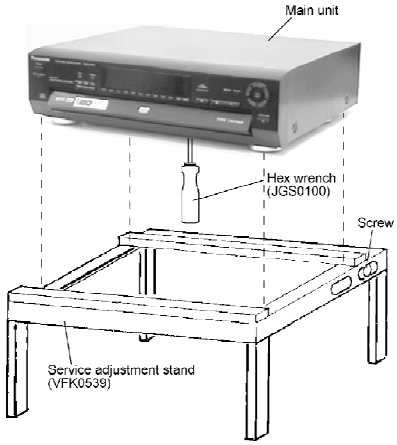
10.2.2. Precautions

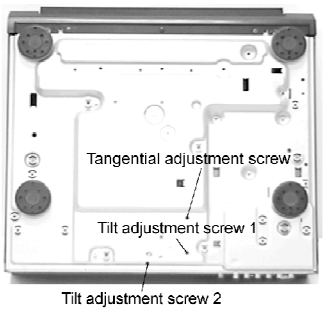
Do not disconnect the power plug from the outlet with the tray still open, then close the tray manually. If you were to do so, the traverse unit would not go to the upper (standby) position, and the player could not be transported.

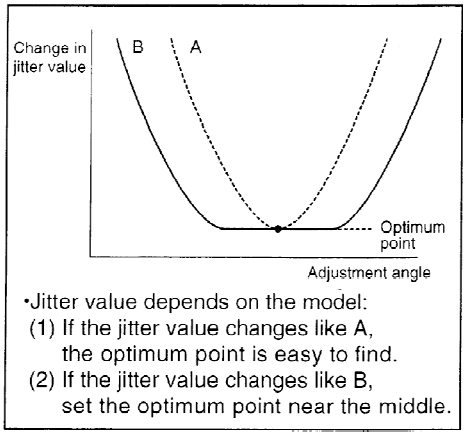
11. Optical Pickup Tilt Adjustment

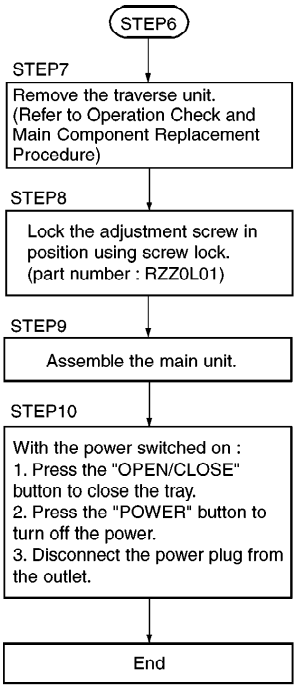
Measurement point	Adjustment point	Mode	Disc
Main unit service display	Tangential adjustment screw Tilt adjustment screw	T1 (inner periphery) play T43 (outer periphery) play	DVDT-S15 or DVDT-S01
Measuring equipment, tools		Adjustment value	
Hex wrench (part number : JZS0100) Screw lock (part number : RZZ0L01)		Adjust to the minimum jitter value.	

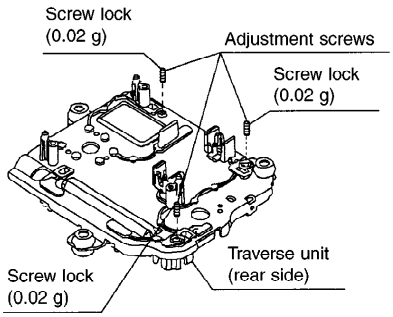

Start
Replaced the optical pickup.
Replaces the spindle motor.
Replace the peripheral parts of the optical pickup, etc.
STEP1
Press “PAUSE”, “OPEN/CLOSE” button (main unit) and "5" button (remote control unit) simultaneously.
STEP2
Main unit display
Check to see that "JIT xxx" is displayed.
Present jitter value.
STEP3
Play test disc title 1
(inner periphery)
Tangential adjustment screw
Adjust to the minimum jitter value.
Do steps 3-5 from the bottom of the main unit using a hex wrench
STEP4
Play test disc title 43
(outer periphery)
Tilt adjustment screw 1
Adjust to the minimum jitter value.
STEP5
Play test disc title 43
(outer periphery)
Tilt adjustment screw 2
Adjust to the minimum jitter value.
Repeat adjusting tilt adjustment screws 1 and 2 alternately, two or three times.
STEP6
NG
Check condition after adjustment
OK
STEP7
Play the disc to make sure there is no picture degration in the inner, middle and outer peripher-ies, and no audio skipping.






Change in jitter value
B
A
Optimum point
Adjustment angle
•Jitter value depends on the model:
(1) If the jitter value changes like A, the optimum point is easy to find.
(2) If the jitter value changes like B, set the optimum point near the middle.


STEP6
STEP7
Remove the traverse unit.
(Refer to Operation Check and Main Component Replacement Procedure)
STEP8
Lock the adjustment screw in position using screw lock.
(part number : RZZ0L01)
STEP9
Assemble the main unit.
STEP10
With the power switched on :
1. Press the "OPEN/CLOSE" button to close the tray.
2. Press the "POWER" button to turn off the power.
3. Disconnect the power plug from the outlet.
End



Notes :

- Adjustment is generally unnecessary after replacing other parts of the traverse unit. However, adjust if there is a noticeable degradation in picture quality.
- Optical adjustment cannot be made inside the optical pickup.
- Adjustment is generally unnecessary after replacing the traverse unit.

12. Terminal Function of IC's

12.1. IC6001 (MN101C35DAB) System Microprocessor

Pin No.	Mark	I/O	Function
1	CMD	O	Serial output
2	STAT	I	Serial input
3	DSPCLK	I	Serial clock
4	DATA	O	Disc No. LED
5	STE-L	O	Disc No. LED
6	CLK	O	Disc No. LED
7	CLR-L	O	Disc No. LED
8	VDD	I	5V
9	OSC2	O	Clock
10	OSC1	I	Clock
11	VSS	I	GND
12	XI	I	Not used
13	XO	O	Not used
14	MMOD	I	Memory mode L
15	VREF-	I	A/D reference L
16	KEYIN0	I	A/D key input
17	KEYIN1	I	A/D key input

Pin No.	Mark	I/O	Function
18	KEYIN2	I	A/D key input
19	—	I	Not used
20	—	I	Not used
21	I:U-DW	I	Mecha control
22	I:R-O	I	Mecha control
23	PA7	I	Not used
24	VREF+	I	A/D reference H
25	O_LOAD	O	Mecha control
26	NRST	I	Reset
27	O-TURN	O	Mecha control
28	O-DIR	O	Mecha control
29	O-PWM	O	Mecha control
30	0_P-OFF	O	Power OFF
31	POWER-MUTE	O	Power mute
32	WIDE1	O	
33	REMOCON	I	Remote controller input
34	—	I	Not used
35	—	I	Not used
36	I POSITI	I	Mecha control
37	I SPEED	I	Mecha control
38	—	I	Not used
39	O WIDE2	O	Used or mute
40	—	O	Not used
41	—	O	Not used
42	O STBY-LED	I	LED
43	O CINEMA-LED	I	LED
44	O VSS-LED	I	LED
45	SW_IN3	I	SW scan input
46	SW_IN4	I	SW scan input
47	SW_O0	O	SW scan output
48	SW_O1	O	SW scan output
49	SW_O2	O	SW scan output
50	FL-OFF	O	FL heater
51~63	DGT13~DGT1	O	FL-DGT
64~80	SEG7~SEG23	O	FL-SEG
81~99	SEG24~SEG42	O	FL-SEG (Nor used)
100	VPP	I	FL-23V

13. Block Diagram

14. Schematic Diagram

15. Printed Circuit Board

16. Parts Location and Replacement Parts List

Notes:

- Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to teh cover page for area or colour)
Parts without these indications can be used for all areas.

- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".

- Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.

- Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).

- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- [M] Indicates in the Remarks columns indicates parts supplied by MESA.

- [SPC] Indicates in the Remarks columns indicates parts supplied

by SPC.

- The “(SF)” mark denotes the standard part.

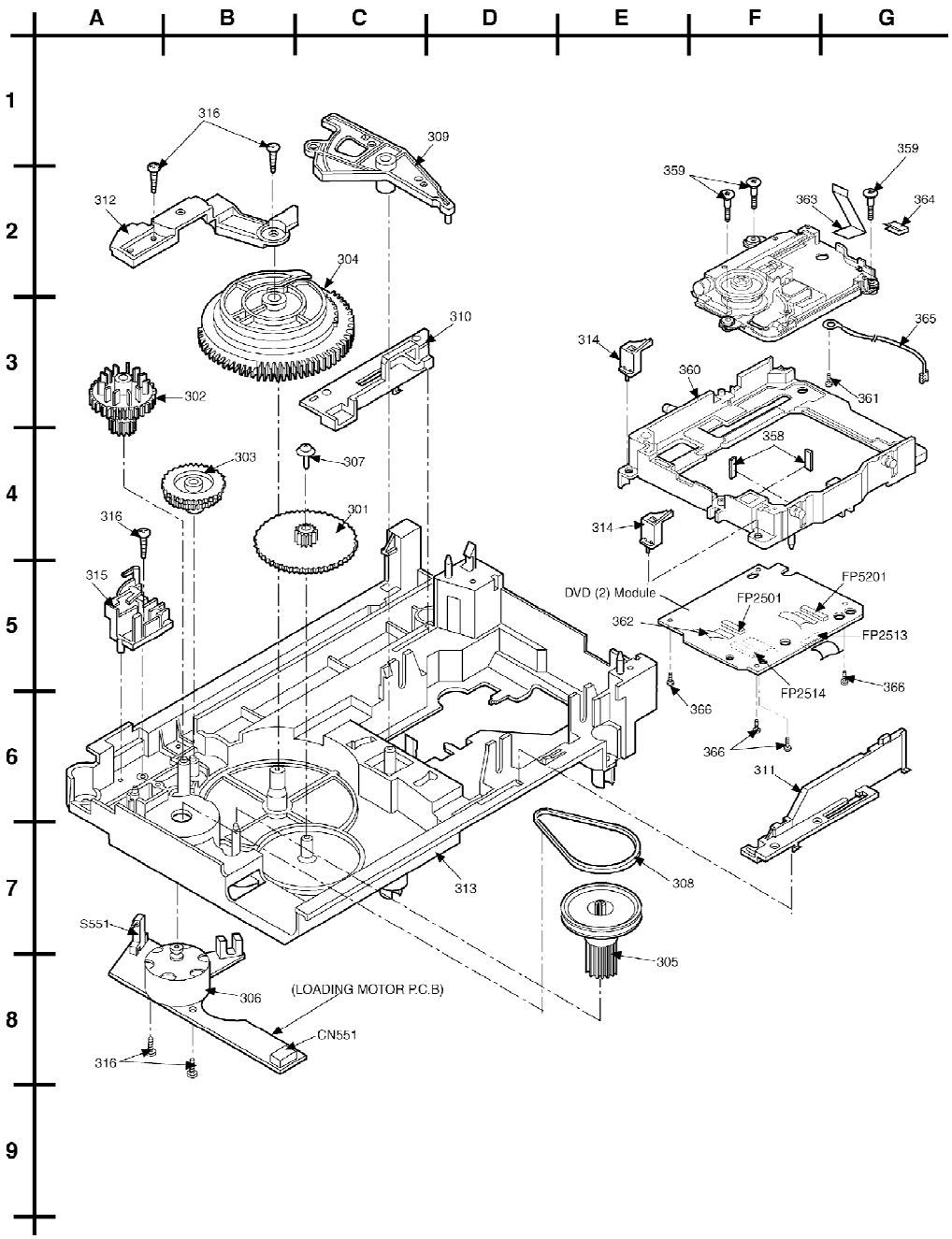
- Remote Control Unit: Supply period for three years from terminal of production.

- Reference for O/I book languages are as follows:

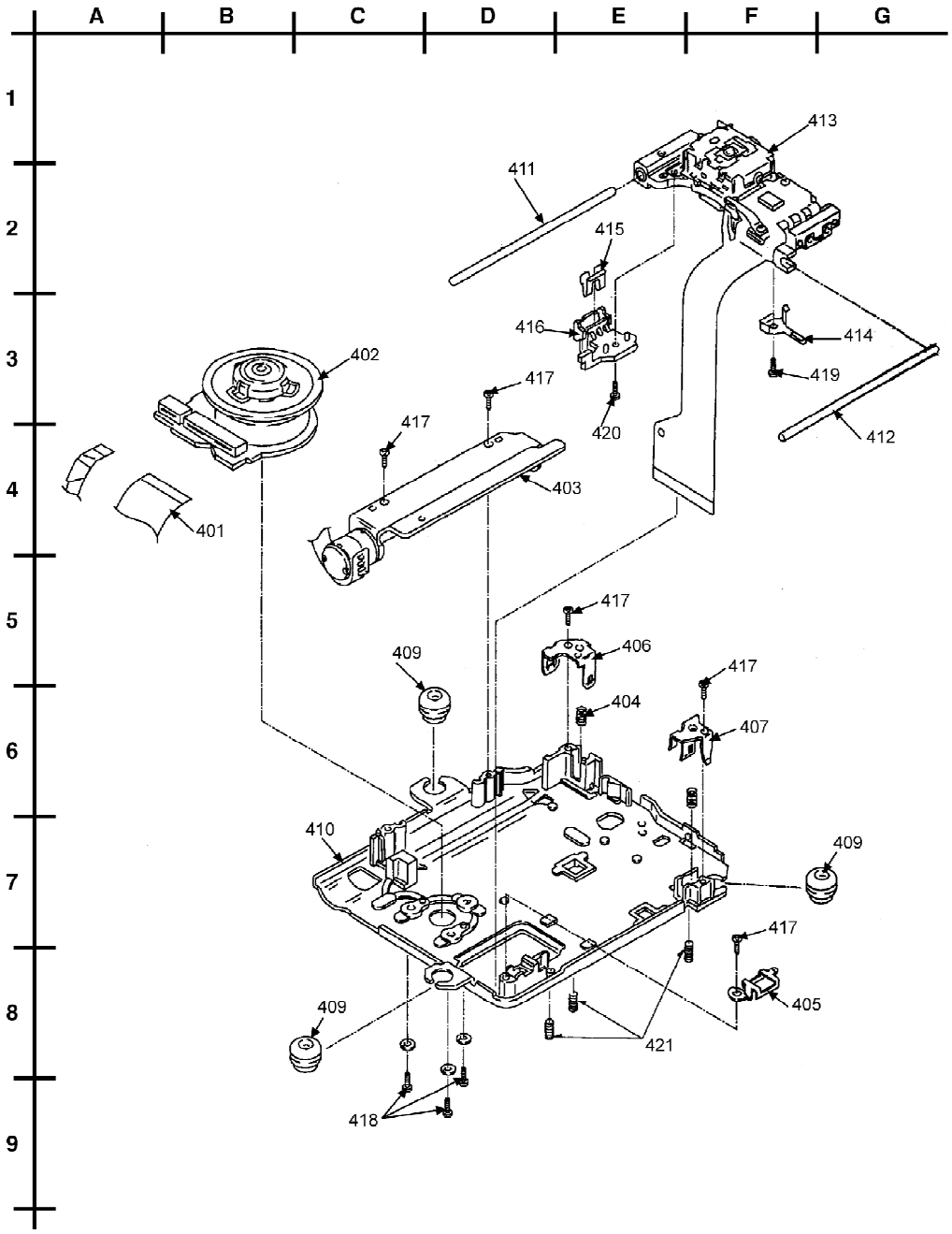
Ar :	**Arabic**	**Du :**	**Dutch**	**It :**	**Italian**	**Sp :**	**Spanish**
Cf :	**Canadian French**	**En :**	**English**	**Ko :**	**Korean**	**Sw :**	**Swedish**
Cz :	**Czech**	**Fr :**	**French**	**Po :**	**Polish**	**Co :**	**Traditio Chinese**
Da :	**Danish**	**Ge :**	**German**	**Ru :**	**Russian**	**Cn :**	**Simplifi Chinese**

16.1. Loading Mechanism and Traverse Unit

16.1.1. Loading Mechanism Parts Location



16.1.2. Traverse Parts Location

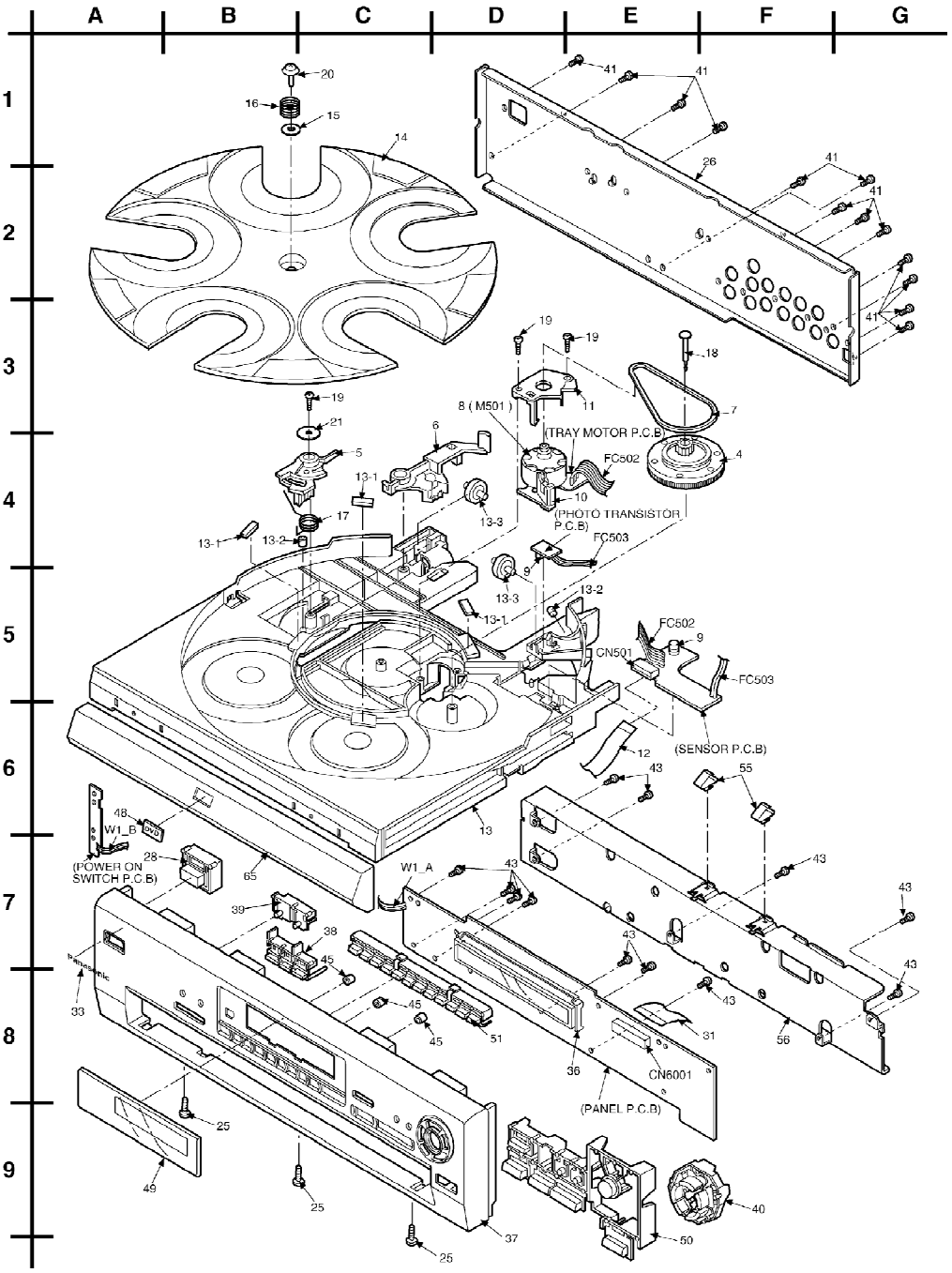


16.1.3. Loading Mechanism and Traverse Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		LOADING MECHANISM AND TRAVERSE	
301	RDG0270	SPEED REDUCTION GEAR	[M]
302	RDG0271	DRIVE GEAR A	[M]
303	RDG0272	DRIVE GEAR B	[M]
304	RDK0025	DRIVE CAM	[M]
305	RDP0050	PULLEY GEAR	[M]
306	RFKPLPD667PB	LOADING MOTOR ASS'Y	[M]
307	RHD26019	SCREW	[M]
308	RMG0268-K	BELT	[M]
309	RML0334	CHANGE LEVER	[M]
310	RMM0117	SLIDE PLATE 1	[M]
311	RMM0118-1	SLIDE PLATE 2	[M]
312	RMR0746-W	STRENGTHENING PLATE	[M]
313	RFKNLPD667PB	MECHA BASE ASS'Y	[M]
314	RMX0094	TRAY GUIDE	[M]
315	RXQ0346-1	SLIDER ASS'Y	[M]
316	XTB3+10JFZ	SCREW	[M]
358	VMT0994	RUBBER CUSHION	[M]
359	VHD1223	FLOATING SCREW	[M]
360	RMR1306-K	TRAVRESE CHASSIS	[M]
361	XSN26+4	EARTH WIRE SCREW	[M]
362	REE1045	17P FFC WIRE	[M]
363	RSC0572	GROUND TAPE	[M]
364	RMN0618	GROUND HOLDER	[M]
365	REE1061	EARTH WIRE	[M]
366	XTV2+5G	PCB SCREW	[M]
401	VWJ1388	SPINDLE FFC	[SPC]
402	BML3E4CRU	SPINDLE MOTOR	[SPC]
403	VEM0720	SPINDLE MOTOR UNIT	[SPC]
404	VMB3278	TILT SPRING	[SPC]
405	VMC1487	SUB-SHAFT SPRING	[SPC]
406	VMC1606	SPRING HOLDER 1	[SPC]
407	VMC1607	SPRING HOLDER 2	[SPC]
409	VMG1166	FLOATING RUBBER	[SPC]
410	VMK0502	TRAVERSE CHASSIS	[SPC]
411	VMS6471	GUIDE SHAFT 1	[SPC]
412	VMS6472	GUIDE SHAFT 2	[SPC]
413	VED0402-1	OPTICAL PICK-UP	[SPC]
414	VMC1491	SUB-SHAFT PRELOAD	[SPC]
415	VMC1490	SCREW NUT	[SPC]
416	VMD3260	NUT	[SPC]
417	VHD1224	SCREW	[SPC]
418	VHD1358	SCREW	[SPC]
419	VHD1057	SCREW	[SPC]
420	XQNQC17+3	SCREW	[SPC]
421	XXE26C6FN	SCREW	[SPC]

16.2. Cabinet

16.2.1. Cabinet Parts Location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9
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41
26
19
18
21
8 (M501)
11
7
6
5
(TRAY MOTOR P.C.B)
FC502
4
13-1
10
17
13-3
13-2
(PHOTO TRANSISTOR P.C.B)
FC503
9
CN501
12
(SENSOR P.C.B)
55
43
48
W1_B
(POWER ON SWITCH P.C.B)
28
65
13
W1_A
39
38
45
51
33
31
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36
CN6001
(PANEL P.C.B)
25
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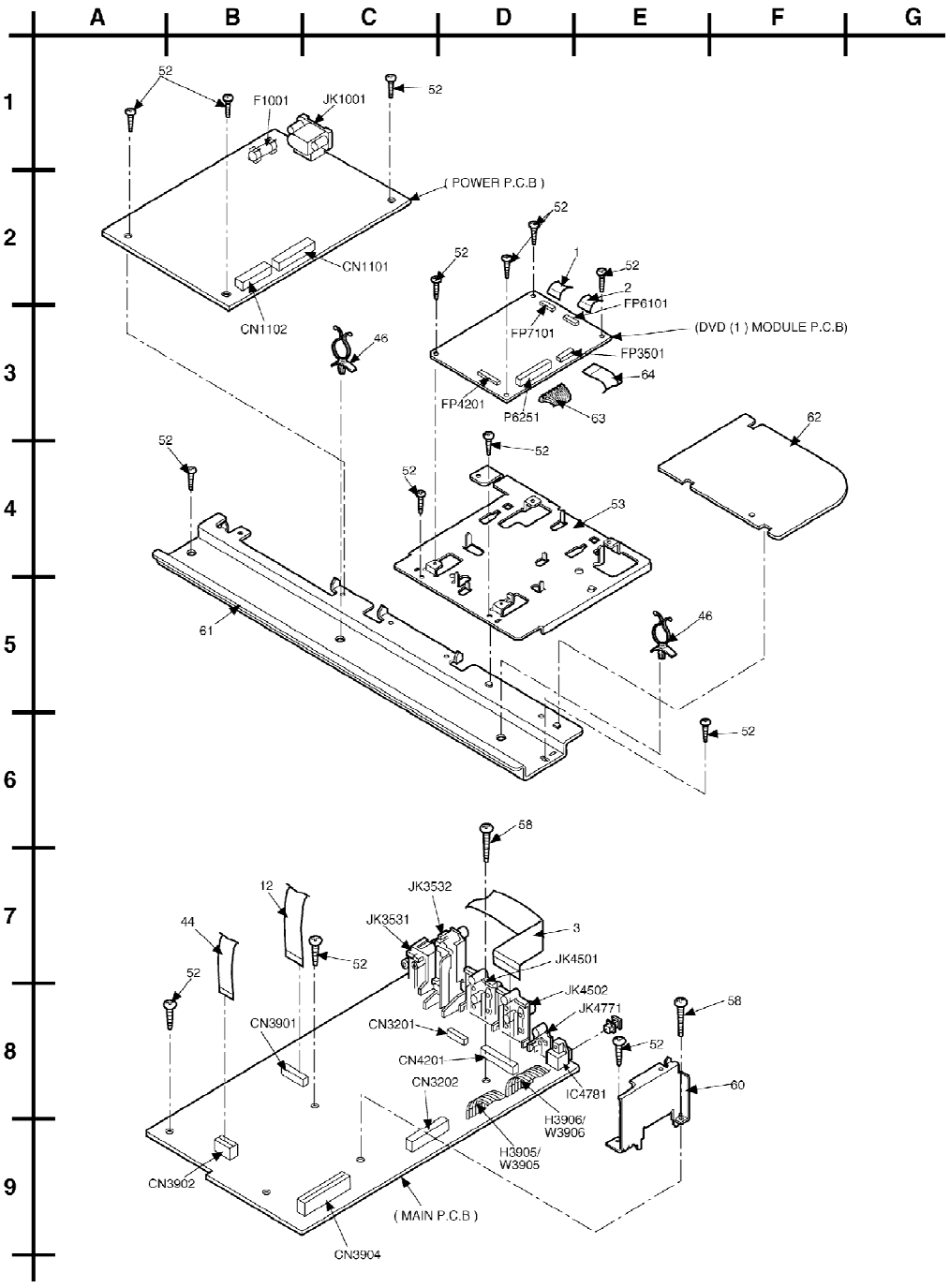
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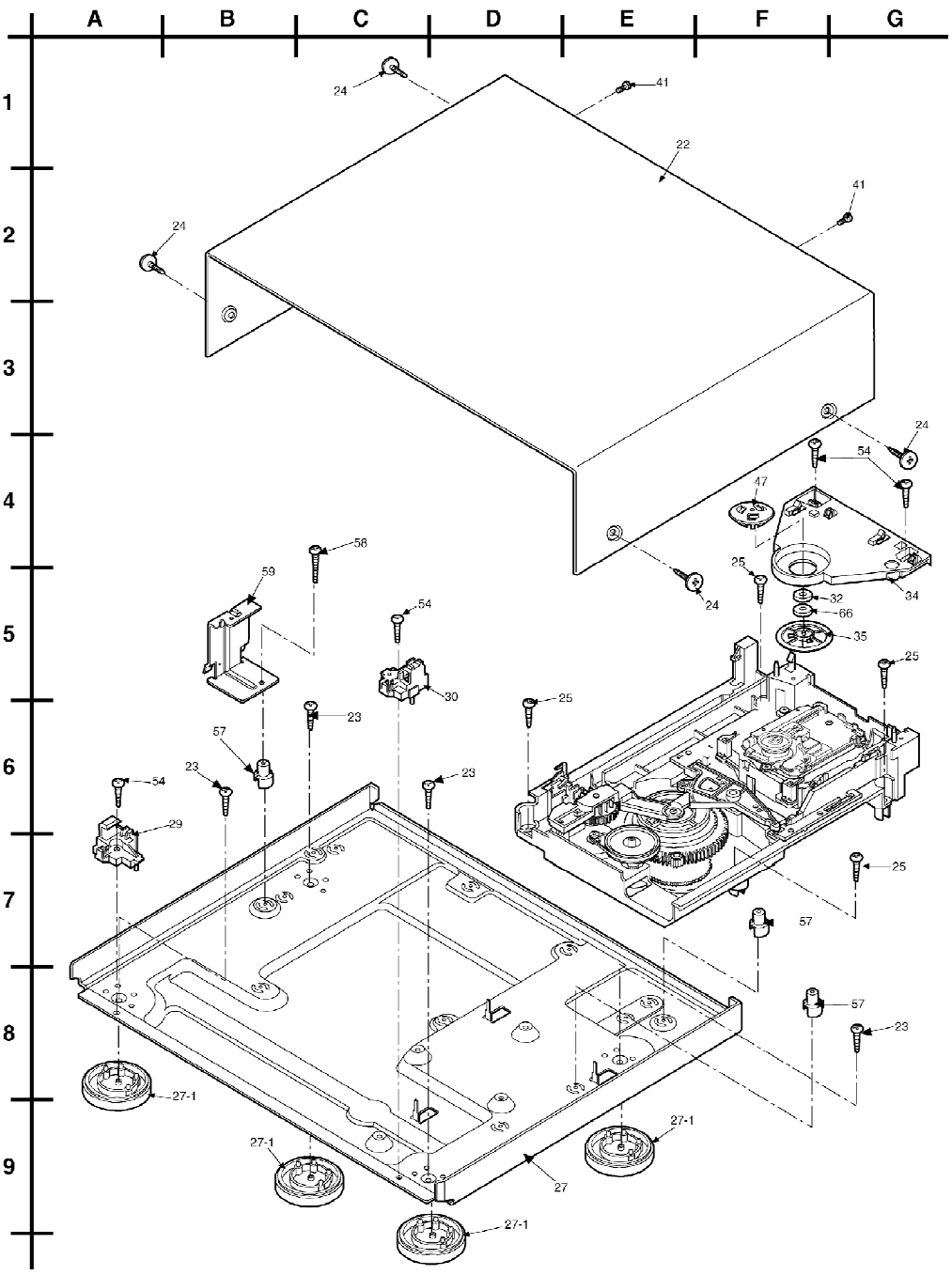
7
8
9
52
F1001
JK1001
(POWER P.C.B)
CN1101
CN1102
46
FP7101
FP6101
(DVD (1) MODULE P.C.B)
FP3501
64
FP4201
P6251
63
62
53
61
58
12
JK3532
JK3531
44
3
JK4501
JK4502
JK4771
CN3901
CN3201
CN4201
CN3202
IC4781
H3906/
W3906
H3905/
W3905
60
CN3902
(MAIN P.C.B)
CN3904



16.2.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REE0996	19P FFC	[M]
2	REE0997	20P FFC	[M]
3	REE1008	26P FFC	[M]
4	RDG0267	TRAY REDUCTION GEAR	[M]
5	RDG0268	CLOSE LOCK GEAR	[M]
6	RDG0269	OPEN LOCK GEAR	[M]
7	RDV0031	BELT	[M]
8	RFKPLPD667PA	TRAY MOTOR ASS'Y	[M]
9	RMN0254	LED HOLDER	[M]
10	RMN0255	SENSOR HOLDER	[M]
11	RMN0263	MOTOR HOLDER	[M]
12	REZ0648	14P FFC	[M]
13	RFKNDCV50CAK	TRAY BASE ASS'Y	[M]
13-1	RMF0182	TRAY FELT	[M]
13-2	RMG0200	SHUTTER RUBBER	[M]
13-3	RMR0546-W2	ROLLER	[M]
14	RGT0019-2	ROTARY TRAY	[M]
15	RHW81001-1	WASHER	[M]
16	RMB0365	TRAY SPRING	[M]
17	RME0152-3	LOCK GEAR SPRING	[M]
18	RMS0123-1	FIXED PIN B	[M]
19	XTB3+10G	SCREW	[M]
20	XTWS3+10S	SCREW	[M]
21	XWE3D13	WASHER	[M]
22	RKM0339-1K2	TOP CABINET	[M]
23	XTB3+6J	SCREW	[M]
24	SNE2129-3	SCREW	[M]
25	XTB3+8JFZ	SCREW	[M]
26	RGR0303A-A1	REAR PANEL	[M]U
26	RGR0303A-B1	REAR PANEL	[M]CA
27	RFKJLPD8PC-K	CHASSIS ASS'Y	[M]
27-1	RKA0079-A	FOOT	[M]
28	RGU1873-K	POWER BUTTON	[M]
29	RMR0742-K	BASE GUIDE L	[M]
30	RMR0743-K	BASE GUIDE R	[M]
31	REE1059	23P FFC	[M]
32	RHM0001	MAGNET	[M]
33	RGB0036-1N	PANA BADGE	[M]
34	RMR0744-W	CLAMPER PLATE	[M]
35	RMR1301-K	CLAMPER	[M]
36	RMN0607	FL HOLDER	[M]
37	RGP0799-K2	FRONT PANEL	[M]
38	RGU1874-K	PLAY MODE BUTTON	[M]
39	RGU1875-Q	CINEMA/VSS BUTTON	[M]
40	RGU1876-Q1	DISC BUTTON	[M]
41	XTBS3+8JFZ1	SCREW	[M]
43	XTBS26+10J	SCREW	[M]
44	RWJ1806115XX	6P WIRE	[M]
45	RMG0200	SHUTTER RUBBER	[M]
46	RMRX0026-W	WIRE CLAMPER	[M]
47	RMR1302-W	FIXED PLATE	[M]
48	RGB0119-N	DVD VIDEO BADGE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
49	RGK1263-V	FL WINDOW	[M]
50	RGU1877-K	PLAY BUTTON	[M]
51	RGU1878-K	10KEY BUTTON	[M]
52	RHD30078	SCREW	[M]
53	RMA1344	MOD, PCB ANGLE	[M]
54	XTB3+10JFZ	SCREW	[M]
55	VMC1240-1	GROUND PLATE	[M]
56	RSC0565-1	SHIELD PLATE	[M]
57	SHE185-2S	PCB SUPPORT	[M]
58	XTW3+15T	SCREW	[M]
59	RMA1342	SUPPORT ANGLE (L)	[M]
60	RMA1343	SUPPORT ANGLE (R)	[M]
61	RMA1341	SUPPORT BAR	[M]
62	RMR1307-Q	CABLE GUIDE	[M]
63	REX1025	12P CONNECTOR WIRE	[M]
64	REE1009	15P FFC	[M]
65	RGK1262-K1	TRAY ORNAMENT	[M]
66	RMA1003	BACK YOKE	[M]

16.3. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		P.C.B.	
	REP2978EB	B/E PCB UNIT	[M] (RTL)
	REP2981A	F/E PCB UNIT	[M] (RTL)
	REP2991A-M	MAIN PCB UNIT	[M] (RTL)
	REP2992A-P	POWER PCB UNIT	[M] (RTL)
	REP2993A-S	PANEL PCB UNIT	[M] (RTL)
	REPX0095A-N	MAIN PCB ASS'Y	[M] (RTL)
	REPX0096A-N	TRAY PCB ASS'Y	[M] (RTL)
		INTEGRATED CIRCUITS	
IC501	BA6247N	IC	[M]
IC1101	UPC1093J-1-T	IC	[M] ⚠
IC1125	PQ07RX11	IC REGULATOR	[M]
IC1151	SI-3090FLF11	IC	[M]
IC2001	MN67706EA	IC	[M]
IC2002	TC7WU04FUT2L	3 INVERTER	[M]
IC2501	AN8480NSB-E1	IC DRIVER	[M]
IC2511	BA5983FM-E2	IC CDROM DRIVER	[M]
IC3001	MN677532JA	IC AVDEC	[M]
IC3002	PQ018EZ01ZP	IC REG	[M] ⚠
IC3003	TC4W66FUTL	IC ANALOG SWITCH	[M]
IC3061	M56V16160D8	IC S-DRAM	[M]
IC3091	PQ1R33	IC REG	[M] ⚠
IC3511	ML6427	IC VIDEO BUFFER	[M]
IC4202	PCM1600Y1T2	IC 6CH A-DAC	[M]
IC4203	MM1385ENRE	IC REGULATOR	[M]
IC4321	NJM4580M-T1	IC AMP	[M]
IC4341	NJM4580M-T1	IC AMP	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC4361	NJM4580M-T1	IC AMP	[M]
IC4362	NJM4580M-T1	IC AMP	[M]
IC4441	NJM4580M-T1	IC AMP	[M]
IC4451	NJM4580M-T1	IC AMP	[M]
IC4751	AHCT1G08DBV	IC LOGIC	[M]
IC4752	AHCT1G08DBV	IC LOGIC	[M]
IC4781	GP1FA551TZ	IC OSC MODULE	[M]
IC4901	PQ09DZ1U	IC REGURATOR	[M]
IC5201	AN8707FH	IC FEP	[M]
IC6001	MN101C35DAB	IC MI-COM	[M]
IC6001	TC74HCT7007A	IC 3V-5V LEVEL SHIFT	[M]
IC6002	PST7027MT	IC RESET	[M]
IC6003	RCDGP1U27XD	IC REMOTE SENSOR	[M]
IC6004	NJU3713GTE1	IC	[M]
IC6201	MN102H55GFB	IC MICRO P	[M]
IC6251	UPC29M33T-E1	IC VOLTAGE REGULATOR	[M]
IC6301	PST596JNR	IC RESET	[M]
IC6302	VUB80110513	IC 4M FLASH ROM	[SPC]
IC6303	AT25020NSI27	IC EEPROM 4K	[M]
IC6501	BU2285FV-E2	IC CLOCK GENERATOR	[M]
IC6521	AHC1GU04HDCK	IC INVERTER	[M]
IC6551	MM1385ENRE	IC REGULATOR	[M]
IC7001	MN103S13BGA	IC ODC	[M]
PR1161	VSF0015A025T	IC PRO TECTOR	[M] ⚠
PR1171	VSF0015A10T	IC PROTECTOR	[M] ⚠
PR4911	VSF0015A10T	IC PROTECTOR	[M] ⚠
		TRANSISTORS	
Q501	PT381	TRANSISTOR	[M]
Q1021	2SC4662LF654	TRANSISTOR	[M]
Q1051	PS2501-1H	PHOTO COUPLE	[M] ⚠
Q1052	2SD1996-STA	TRANSISTOR	[M] ⚠
Q1061	2SD1996-STA	TRANSISTOR	[M]
Q1062	2SC3311ASTA	TRANSISTOR	[M]
Q1063	2SD1996-STA	TRANSISTOR	[M] ⚠
Q1115	2SJ525TP	TRANSISTOR	[M] ⚠
Q3081	2SB1218ATX	TRANSISTOR	[M]
Q3082	2SB1218ATX	TRANSISTOR	[M]
Q3083	2SB1218ATX	TRANSISTOR	[M]
Q3084	2SB1218ATX	TRANSISTOR	[M]
Q3501	2SD601A-RSTX	TRANSISTOR	[M]
Q3521	UN2212TX	TRANSISTOR	[M]
Q3901	UN2215TX	TRANSISTOR	[M]
Q3902	UN2215TX	TRANSISTOR	[M]
Q4211	UN5212TX	TRANSISTOR	[M]
Q4501	2SD1328-TX	TRANSISTOR	[M]
Q4511	2SD1328-TX	TRANSISTOR	[M]
Q4521	2SD1328-TX	TRANSISTOR	[M]
Q4531	2SD1328-TX	TRANSISTOR	[M]
Q4541	2SD601A-RSTX	TRANSISTOR	[M]
Q4551	2SD601A-RSTX	TRANSISTOR	[M]
Q4561	2SD601A-RSTX	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q4571	2SD601A-RSTX	TRANSISTOR	[M]
Q4593	UN2211TX	TRANSISTOR	[M]
Q4594	UN2111TX	TRANSISTOR	[M]
Q4596	UN2111TX	TRANSISTOR	[M]
Q4597	UN2211TX	TRANSISTOR	[M]
Q4901	2SB709A-RSTX	TRANSISTOR	[M]
Q4911	2SB1434RSTA	TRANSISTOR	[M]
Q4912	2SB1320A-RTA	TRANSISTOR	[M]
Q4913	2SD601A-RSTX	TRANSISTOR	[M]
Q4916	UN2111TX	TRANSISTOR	[M]
Q4917	UN2211TX	TRANSISTOR	[M]
Q4918	2SD1328RSTTX	TRANSISTOR	[M]
Q4919	2SD1328RSTTX	TRANSISTOR	[M]
Q4920	2SD1328RSTTX	TRANSISTOR	[M]
Q5201	2SB1115-T1	TRANSISTOR	[M]
Q6001	2SD1996-STA	TRANSISTOR	[M]
Q6301	UN5212TX	TRANSISTOR	[M]
QR1115	UN4213TA	TRANSISTOR	[M] ⚠
QR2001	UN5213TX	CHIP TRANSISTOR	[M]
QR5201	UN5212TX	CHIP TRANSISTOR	[M]
QR5231	UN2121-TX	CHIP TRANSISTOR	[M]
QR6001	DTA123JK-T96	TRANSISTOR	[M]
QR6004	DTA123JK-T96	TRANSISTOR	[M]
		DIODES	
D501	GL380	DIODE	[M]
D502	RSQGP1S53V	DIODE	[M]
D551	SG-206S	DIODE	[M]
D1001	ENC471D5ATUB	ZENER	[M] ⚠
D1002	ENC221D5ATRB	DIODE	[M] ⚠
D1011	S1WBA80	DIODE	[M] ⚠
D1031	VSD0002-T1	DIODE	[M]
D1041	AU01ZV2	DIODE	[M]
D1051	RVD1SS133TA	DIODE	[M]
D1052	RVD1SS133TA	DIODE	[M]
D1053	MA4036MTA	DIODE	[M]
D1101	MA7075A-TR	DIODE	[M] ⚠
D1111	21DQ04FC4	DIODE	[M]
D1121	21DQ04FC4	DIODE	[M]
D1126	11ES1TA1	DIODE	[M]
D1131	11EQS06TA1	DIODE	[M]
D1132	MA7150B-TR	DIODE	[M] ⚠
D1141	11EQS06TA1	DIODE	[M]
D1151	11EQS06TA1	DIODE	[M]
D1152	11EQS06TA1	DIODE	[M]
D1161	AU01ZV2	DIODE	[M]
D1162	MA4030MTA	DIODE	[M]
D1171	AK04V2	DIODE	[M]
D3091	MA111TX	DIODE	[M]
D3901	MA3068MTX	DIODE	[M]
D3902	AK04WS	DIODE	[M]
D3905	UDZSTE175R6B	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D4201	MA111TX	DIODE	[M]
D4202	RLBN102V-Y	DIODE	[M]
D4592	1SS355TE17	DIODE	[M]
D4593	1SS355TE17	DIODE	[M]
D4596	MA3047MTX	DIODE	[M]
D4901	AK04WS	DIODE	[M]
D5231	ERJ3GEYJ180V	18 1/16W	[M]
D6001	MA728TX	DIODE	[M]
D6002	SLR325MCT31W	DIODE	[M]
D6003	SLR325MCT31W	DIODE	[M]
D6005	SML79423C	DIODE	[M]
D6006	SML79423C	DIODE	[M]
D6007	SML79423C	DIODE	[M]
D6008	SML79423C	DIODE	[M]
D6009	SML79423C	DIODE	[M]
D6301	MA728TX	DIODE	[M]
D6551	MA111TX	DIODE	[M]
DZ1001	VSQ1003-F	DIA SURGE	[M] ⚠
LB1021	VLP0056-T	CHIP BEAD	[M]
LB2001	VLP0323A601R	CHIP INDUCTOR	[M]
LB2002	VLP0323A601R	CHIP INDUCTOR	[M]
LB2003	VLP0323A601R	CHIP INDUCTOR	[M]
LB2004	VLP0323A601R	CHIP INDUCTOR	[M]
LB2005	VLP0323A601R	CHIP INDUCTOR	[M]
LB2006	VLP0323A601R	CHIP INDUCTOR	[M]
LB2007	VLP0323A601R	CHIP INDUCTOR	[M]
LB2008	VLP0323A601R	CHIP INDUCTOR	[M]
LB2009	VLP0323A601R	CHIP INDUCTOR	[M]
LB2010	VLP0323A601R	CHIP INDUCTOR	[M]
LB2011	VLP0323A601R	CHIP INDUCTOR	[M]
LB2012	VLP0323A601R	CHIP INDUCTOR	[M]
LB2013	VLP0323A601R	CHIP INDUCTOR	[M]
LB2014	VLP0323A601R	CHIP INDUCTOR	[M]
LB2015	VLP0323A601R	CHIP INDUCTOR	[M]
LB2016	VLP0323A601R	CHIP INDUCTOR	[M]
LB2017	ERJ3GEYJ221V	220 1/16W	[M]
LB2018	ERJ3GEYJ221V	220 1/16W	[M]
LB2019	ERJ3GEYJ221V	220 1/16W	[M]
LB2020	ERJ3GEYJ221V	220 1/16W	[M]
LB2021	ERJ3GEYJ221V	220 1/16W	[M]
LB2022	VLP0323A601R	CHIP INDUCTOR	[M]
LB2023	VLP0323A601R	CHIP INDUCTOR	[M]
LB2024	VLP0323A601R	CHIP INDUCTOR	[M]
LB2025	VLP0323A601R	CHIP INDUCTOR	[M]
LB2026	VLP0323A601R	CHIP INDUCTOR	[M]
LB2027	VLP0323A601R	CHIP INDUCTOR	[M]
LB2028	VLP0323A601R	CHIP INDUCTOR	[M]
LB2501	VLP0323A601R	CHIP INDUCTOR	[M]
LB2502	VLP0323A601R	CHIP INDUCTOR	[M]
LB2503	VLP0323A601R	CHIP INDUCTOR	[M]
LB2504	VLP0323A601R	CHIP INDUCTOR	[M]
LB2505	VLP0323A601R	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB2506	VLP0323A601R	CHIP INDUCTOR	[M]
LB2507	VLP0323A601R	CHIP INDUCTOR	[M]
LB2508	VLP0323A601R	CHIP INDUCTOR	[M]
LB2509	JALBK2HS470T	CHIP INDUCTOR	[M]
LB2510	JALBK2HS470T	CHIP INDUCTOR	[M]
LB2511	JALBK2HS470T	CHIP INDUCTOR	[M]
LB2512	VLP0323A601R	CHIP INDUCTOR	[M]
LB2513	JALBK2HS470T	CHIP INDUCTOR	[M]
LB2514	JALBK2HS470T	CHIP INDUCTOR	[M]
LB2515	JALBK2HS470T	CHIP INDUCTOR	[M]
LB2516	JALBK2HS470T	CHIP INDUCTOR	[M]
LB3504	VLP0323A601R	CHIP INDUCTOR	[M]
LB3505	VLP0323A601R	CHIP INDUCTOR	[M]
LB3506	VLP0323A601R	CHIP INDUCTOR	[M]
LB3507	VLP0323A601R	CHIP INDUCTOR	[M]
LB3533	VLP0145-T	CHIP INDUCTOR	[M]
LB3534	VLP0145-T	CHIP INDUCTOR	[M]
LB3535	VLP0145-T	CHIP INDUCTOR	[M]
LB3537	VLP0145-T	CHIP INDUCTOR	[M]
LB3538	VLP0145-T	CHIP INDUCTOR	[M]
LB3539	VLP0145-T	CHIP INDUCTOR	[M]
LB4009	VLP0323A601R	CHIP INDUCTOR	[M]
LB4010	VLP0323A601R	CHIP INDUCTOR	[M]
LB4011	VLP0323A601R	CHIP INDUCTOR	[M]
LB4012	VLP0323A601R	CHIP INDUCTOR	[M]
LB4013	VLP0323A601R	CHIP INDUCTOR	[M]
LB4014	VLP0323A601R	CHIP INDUCTOR	[M]
LB4015	VLP0323A601R	CHIP INDUCTOR	[M]
LB4016	VLP0323A601R	CHIP INDUCTOR	[M]
LB4017	VLP0323A601R	CHIP INDUCTOR	[M]
LB4018	VLP0323A601R	CHIP INDUCTOR	[M]
LB4019	VLP0323A601R	CHIP INDUCTOR	[M]
LB4020	VLP0323A601R	CHIP INDUCTOR	[M]
LB4021	VLP0323A601R	CHIP INDUCTOR	[M]
LB4022	VLP0323A601R	CHIP INDUCTOR	[M]
LB4501	VLP0145-T	CHIP INDUCTOR	[M]
LB4511	VLP0145-T	CHIP INDUCTOR	[M]
LB4521	VLP0145-T	CHIP INDUCTOR	[M]
LB4531	VLP0145-T	CHIP INDUCTOR	[M]
LB4541	VLP0145-T	CHIP INDUCTOR	[M]
LB4551	VLP0145-T	CHIP INDUCTOR	[M]
LB4561	VLP0145-T	CHIP INDUCTOR	[M]
LB4571	VLP0145-T	CHIP INDUCTOR	[M]
LB4771	ERJ6GEY0R00V	0 1/10W	[M]
LB4772	ERJ6GEY0R00V	0 1/10W	[M]
LB5201	VLP0323A601R	CHIP INDUCTOR	[M]
LB5202	VLP0323A601R	CHIP INDUCTOR	[M]
LB5203	JALBK2HS470T	CHIP INDUCTOR	[M]
LB5204	VLP0323A601R	CHIP INDUCTOR	[M]
LB5205	VLP0323A601R	CHIP INDUCTOR	[M]
LB5206	VLP0323A601R	CHIP INDUCTOR	[M]
LB5207	VLP0323A601R	CHIP INDUCTOR	[M]
LB5208	VLP0323A601R	CHIP INDUCTOR	[M]
LB5209	VLP0323A601R	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB5210	VLP0323A601R	CHIP INDUCTOR	[M]
LB5211	JALBK2HS470T	CHIP INDUCTOR	[M]
LB5212	VLP0323A601R	CHIP INDUCTOR	[M]
LB5213	VLP0323A601R	CHIP INDUCTOR	[M]
LB5214	VLP0323A601R	CHIP INDUCTOR	[M]
LB5215	JALBK2HS470T	CHIP INDUCTOR	[M]
LB5216	VLP0323A601R	CHIP INDUCTOR	[M]
LB5217	JALBK2HS470T	CHIP INDUCTOR	[M]
LB5218	VLP0323A601R	CHIP INDUCTOR	[M]
LB6101	VLP0323A601R	CHIP INDUCTOR	[M]
LB6102	VLP0323A601R	CHIP INDUCTOR	[M]
LB6103	VLP0323A601R	CHIP INDUCTOR	[M]
LB6104	VLP0323A601R	CHIP INDUCTOR	[M]
LB6105	VLP0323A601R	CHIP INDUCTOR	[M]
LB6106	VLP0323A601R	CHIP INDUCTOR	[M]
LB6107	VLP0323A601R	CHIP INDUCTOR	[M]
LB6108	VLP0323A601R	CHIP INDUCTOR	[M]
LB6109	VLP0323A601R	CHIP INDUCTOR	[M]
LB6110	VLP0323A601R	CHIP INDUCTOR	[M]
LB6111	VLP0323A601R	CHIP INDUCTOR	[M]
LB6112	VLP0157-T	CHIP INDUCTOR	[M]
LB6201	VLP0155-T	CHIP BEAD	[M]
LB6501	VLP0323A601R	CHIP INDUCTOR	[M]
LB6502	VLP0155-T	CHIP BEAD	[M]
LB6503	VLP0155-T	CHIP BEAD	[M]
LB6504	VLP0323A601R	CHIP INDUCTOR	[M]
LB6505	VLP0155-T	CHIP BEAD	[M]
LB6506	VLP0323A601R	CHIP INDUCTOR	[M]
LB6507	VLP0155-T	CHIP BEAD	[M]
LB6521	VLP0155-T	CHIP BEAD	[M]
LB6522	VLP0323A601R	CHIP INDUCTOR	[M]
LB7101	VLP0323A601R	CHIP INDUCTOR	[M]
LB7102	VLP0323A601R	CHIP INDUCTOR	[M]
LB7103	VLP0323A601R	CHIP INDUCTOR	[M]
LB7104	VLP0323A601R	CHIP INDUCTOR	[M]
LB7105	VLP0323A601R	CHIP INDUCTOR	[M]
LB7106	VLP0323A601R	CHIP INDUCTOR	[M]
LB7107	VLP0323A601R	CHIP INDUCTOR	[M]
LB7108	VLP0155-T	CHIP BEAD	[M]
LB7109	VLP0155-T	CHIP BEAD	[M]
LB7110	VLP0155-T	CHIP BEAD	[M]
LB7111	VLP0155-T	CHIP BEAD	[M]
LB7112	VLP0155-T	CHIP BEAD	[M]
LB7113	VLP0155-T	CHIP BEAD	[M]
LB7114	VLP0155-T	CHIP BEAD	[M]
LB7115	VLP0155-T	CHIP BEAD	[M]
LB7116	VLP0155-T	CHIP BEAD	[M]
LB7117	VLP0155-T	CHIP BEAD	[M]
LR1041	VLP0392-T	CHIP INDUCTOR	[M]
		SWITCHES	
S551	RSH1A005-1U	SWITCH	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
S6001	EVQ11G07K	SW STOP	[M]
S6002	EVQ11G07K	SW PAUSE	[M]
S6003	EVQ11G07K	SW PLAY	[M]
S6004	EVQ11G07K	SW DISC CHANGE	[M]
S6005	EVQ11G07K	SW DISC SKIP	[M]
S6006	EVQ11G07K	SW DISC 1	[M]
S6007	EVQ11G07K	SW DISC 2	[M]
S6008	EVQ11G07K	SW DISC 3	[M]
S6009	EVQ11G07K	SW DISC 4	[M]
S6010	EVQ11G07K	SW DISC 5	[M]
S6013	EVQ11G07K	SW TRACK 0	[M]
S6014	EVQ11G07K	SW TRACK 1	[M]
S6015	EVQ11G07K	SW TRACK 2	[M]
S6016	EVQ11G07K	SW TRACK 3	[M]
S6017	EVQ11G07K	SW TRACK 4	[M]
S6018	EVQ11G07K	SW TRACK 5	[M]
S6019	EVQ11G07K	SW TRACK 6	[M]
S6020	EVQ11G07K	SW TRACK 7	[M]
S6021	EVQ11G07K	SW TRACK 8	[M]
S6022	EVQ11G07K	SW TRACK 9	[M]
S6023	EVQ11G07K	SW REVERSE SKIP	[M]
S6024	EVQ11G07K	SW FWD-SKIP	[M]
S6025	EVQ11G07K	SW POWER	[M]
S6026	EVQ11G07K	SW OPEN/CLOSE	[M]
S6027	EVQ11G07K	SW VSS	[M]
S6028	EVQ11G07K	SW CINEMA	[M]
S6029	EVQ11G07K	SW SEQ-MODE	[M]
S6030	EVQ11G07K	SW REP-MODE	[M]
S6031	EVQ11G07K	SW PLAY MODE	[M]
S6032	EVQ11G07K	SW >10	[M]
S6033	EVQ11G07K	SW CANCEL	[M]
		CONNECTORS	
CN501	RJS1A6714-Q	14P CONNECTOR	[M]
CN551	RJS2A1506	6P CONNECTOR	[M]
CN1101	RJP10G4YA	10P CONNECTOR	[M]
CN1102	RJP8G4YA	CONNECTOR	[M]
CN3201	RJS2A5615	15P P1 FFC CONNECTOR	[M]
CN3202	RJP12G18ZA	CONNECTOR	[M]
CN3901	RJS1A6814-J	FF CONNECTOR	[M]
CN3902	RJS1A6606T1	TAPING CONNECTOR	[M]
CN3904	RJS1A6823-J	23P FPC CONNECTOR	[M]
CN4201	RJS2A5626	26P P1 FFC CONNECTOR	[M]
CN6001	RJS1A6223-1	23P CONNECTOR	[M]
PS6201	VJS2961C010	10P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L1001	ELF15N005A	COIL	[M] ⚠
L1111	VLQ0611K100T	COIL	[M]
L1115	ELELN100KA	COIL	[M]
L1131	VLQEL05T330K	COIL	[M]
L1141	VLQEL05T330K	COIL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L1151	VLQ0611K220T	COIL	[M]
L2001	RLQU100KT-W	CHIP COIL	[M]
L2002	RLQU100KT-W	CHIP COIL	[M]
L2003	RLQU100KT-W	CHIP COIL	[M]
L2501	ERJ14Y0R00H	0 1/16W	[M]
L3091	ELJEA100KF	CHIP INDUCTOR	[M]
L3501	ELESN220JA	COIL	[M]
L3551	ELESN390JA	COIL	[M]
L4202	ELJEA100KF	CHIP INDUCTOR	[M]
L4761	ELJNDR10JF	CHIP COIL	[M]
L4781	ELESN220JA	COIL	[M]
L5201	RLQU100KT-W	CHIP COIL	[M]
L5202	RLQU100KT-W	CHIP COIL	[M]
L6001	ELESN101JA	COIL	[M]
L6002	ELESN221JA	COIL	[M]
L6201	ERJ14Y0R00H	0 1/4W	[M]
L6501	ELJFC220KF	CHIP INDUCTOR	[M]
L6502	ELJFC220KF	CHIP INDUCTOR	[M]
L7001	ELJEA100KF	CHIP INDUCTOR	[M]
L7002	ELJEA100KF	CHIP INDUCTOR	[M]
T1021	ETS28AV115AC	TRANSFORMER	[M] ⚠
T4761	VLQ0790	SPRING	[M]
		COMPONENT COMBINATION	
Z2001	ELKE103FA	CHIP INDUCTOR	[M]
Z2002	ELKE103FA	CHIP INDUCTOR	[M]
Z2003	ELKE103FA	CHIP INDUCTOR	[M]
Z2004	ELKE103FA	CHIP INDUCTOR	[M]
Z2005	ELKE103FA	CHIP INDUCTOR	[M]
		OSCILLATORS	
X6001	EF0EC8004T4	CERAMIC OSCILLATOR	[M]
X6501	VSX1044	CRYSTAL	[M]
		DISPLAY TUBE	
FL6001	RSL0304-F	FL	[M]
FL6011	VLF1491S104T	CHIP FILTER	[M]
FL6012	VLF1491S105T	CHIP FILTER	[M]
FL6014	VLF1491S105T	CHIP FILTER	[M]
FL6015	VLF1491S105T	CHIP FILTER	[M]
FL6016	VLF1491S105T	CHIP FILTER	[M]
FL6101	VLF1491S105T	CHIP FILTER	[M]
FL6102	VLF1491S105T	CHIP FILTER	[M]
FL6103	VLF1491S105T	CHIP FILTER	[M]
FL7101	VLF1491S104T	CHIP FILTER	[M]
		FUSES	
F1001	VSF0248C16	FUSE	[M] ⚠
		FUSE HOLDERS	

Ref. No.	Part No.	Part Name & Description	Remarks
FC502	RWJ4406087KK	6P FLAT CABLE	[M]
FC503	RWJ4403102KK	3P FLAT CABLE	[M]
FC1001	EYF52BC	FUSE HOLDER	[M]
FC1002	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP2501	RJS2A5017T	6232 CONNECTOR	[M]
FP2513	RJS2A7520T	FMN CNNECTOR	[M]
FP2514	RJS2A0619T	FFC CONECTOR	[M]
FP3501	RJS2A7515T	FMN CNNECTOR	[M]
FP4201	RJS2A7526T	FMN CNNECTOR	[M]
FP5201	RJS2A0621T	FFC CONECTOR	[M]
FP6101	RJS2A7520T	FMN CNNECTOR	[M]
FP7101	RJS2A7519T	FMN CONNECTOR	[M]
		HOLDERS	
H3905	RJS1A5508	WIRE HOLDER	[M]
H3906	RJS1A5510	WIRE HOLDER	[M]
		JACKS	
JK1001	SJSD16-J	JK AC INLET	[M] ⚠
JK3531	RJH8204N	JK S RCA PIN	[M]
JK3532	RJH3302N	JK RCA PIN	[M]
JK4501	SJF3069N	JK LINE IN	[M]
JK4502	SJF3069-17N	JK 4P PIN	[M]
JK4771	RJH2110N-2	JK SUB-WOOFER	[M]
		WIRES	
W1	RWJ1803100KK	3P WIRE	[M]
W3905	REX1026	8P FLAT WIRE	[M]
W3906	REX1027	10P FLAT WIRE	[M]
ZA1111	VJR0978	TERMINAL	[M]
ZA1112	VJR0978	TERMINAL	[M]
ZA1113	VJR0978	TERMINAL	[M]
ZA3501	VJR0978	TERMINAL	[M]
ZA3901	VJR0978	TERMINAL	[M]
ZA4751	VJR0978	TERMINAL	[M]
		RESISTORS	
R1031	ERDS2FJ124T	120K 1/4W	[M]
R1032	ERDS2FJ124T	120K 1/4W	[M]
R1041	ERDS2TJ105T	1M 1/4W	[M]
R1042	ERG2SJ680P	68 2W	[M] ⚠
R1051	ERDS2TJ750T	75 1/4W	[M]
R1052	ERDS2TJ100T	10 1/4W	[M]
R1053	ERDS2TJ331T	330 1/4W	[M]
R1054	ER0S2THF6800	68 1/4W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
R1061	ERDS2TJ103T	10K 1/4W	[M]
R1062	ERDS2TJ514T	510K 1/4W	[M]
R1063	ERDS2TJ474T	470K 1/4W	[M]
R1064	ERDS2TJ153T	15K 1/4W	[M]
R1065	ERDS2TJ332T	3.3K 1/4W	[M]
R1066	ERDS2TJ473T	47K 1/4W	[M]
R1101	ERDS2TJ750T	75 1/4W	[M]
R1102	ER0S2THF1201	12 1/4W	[M]
R1103	ER0S2THF1201	12 1/4W	[M]
R1104	ERDS2TJ561T	560 1/4W	[M]
R1105	ERDS2TJ271T	270 1/4W	[M]
R1106	ERDS2TJ392T	3.9K 1/4W	[M]
R1107	ERDS2TJ472T	4.7K 1/4W	[M]
R1115	ERDS2TJ104T	100K 1/4W	[M]
R1116	ERDS2TJ102T	1K 1/4W	[M]
R1125	ERDS2TJ101T	100 1/4W	[M]
R1126	ER0S2THF1201	12 1/4W	[M]
R1127	ER0S2THF1201	12 1/4W	[M]
R1161	ERDS2TJ104T	100K 1/4W	[M]
R1181	ERDS2TJ101T	100 1/4W	[M]
R2001	ERJ3GEYJ473V	47K 1/16W	[M]
R2002	ERJ3GEYJ473V	47K 1/16W	[M]
R2003	ERJ3GEYJ473V	47K 1/16W	[M]
R2004	ERJ3GEYJ473V	47K 1/16W	[M]
R2005	ERJ3GEYJ473V	47K 1/16W	[M]
R2006	ERJ3GEYJ473V	47K 1/16W	[M]
R2007	ERJ3GEYJ473V	47K 1/16W	[M]
R2008	ERJ3GEYJ223V	22K 1/16W	[M]
R2009	ERJ3GEYJ223V	22K 1/16W	[M]
R2010	ERJ3GEYJ273V	27K 1/16W	[M]
R2011	ERJ3GEYJ123V	12K 1/16W	[M]
R2012	ERJ3GEYD562V	5.6K 1/16W	[M]
R2013	ERJ3GEYJ273V	27K 1/16W	[M]
R2014	ERJ3GEYJ105V	1M 1/16W	[M]
R2017	ERJ3GEYD153V	15K 1/16W	[M]
R2018	ERJ3GEYJ473V	47K 1/16W	[M]
R2020	ERJ3GEYD123V	12K 1/16W	[M]
R2021	ERJ3GEYJ103V	10K 1/16W	[M]
R2022	ERJ3GEYJ223V	22K 1/16W	[M]
R2023	ERJ3GEYJ223V	22K 1/16W	[M]
R2024	ERJ3GEYJ563V	56K 1/16W	[M]
R2025	ERJ3GEYJ563V	56K 1/16W	[M]
R2026	ERJ3GEYJ105V	1M 1/16W	[M]
R2027	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2028	ERJ3GEYJ103V	10K 1/16W	[M]
R2029	ERJ3GEYD103V	10K 1/16W	[M]
R2030	ERJ3GEYJ103V	10K 1/16W	[M]
R2031	ERJ3GEYJ561V	560 1/16W	[M]
R2032	ERJ3GEYJ473V	47K 1/16W	[M]
R2033	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2034	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2051	ERJ3GEY0R00V	0 1/16W	[M]
R2067	ERJ3GEYJ221V	220 1/16W	[M]
R2068	ERJ3GEYJ221V	220 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2069	ERJ3GEYJ221V	220 1/16W	[M]
R2070	ERJ3GEYJ221V	220 1/16W	[M]
R2071	ERJ3GEYJ221V	220 1/16W	[M]
R2072	ERJ3GEY0R00V	0 1/16W	[M]
R2073	VLP0323A601R	CHIP INDUCTOR	[M]
R2074	VLP0323A601R	CHIP INDUCTOR	[M]
R2075	VLP0323A601R	CHIP INDUCTOR	[M]
R2076	VLP0323A601R	CHIP INDUCTOR	[M]
R2077	VLP0323A601R	CHIP INDUCTOR	[M]
R2501	ERJ3GEYJ271V	270 1/16W	[M]
R2502	ERJ3GEYJ271V	270 1/16W	[M]
R2503	ERJ14YKR39H	39 1/4W	[M]
R2505	ERJ3GEYJ473V	47K 1/16W	[M]
R2511	ERJ3GEYD203V	20K 1/16W	[M]
R2512	ERJ3GEYJ273V	27K 1/16W	[M]
R2513	ERJ3GEYJ333V	33K 1/16W	[M]
R2514	ERJ3GEYD203V	20K 1/16W	[M]
R2515	ERJ3GEYJ273V	27K 1/16W	[M]
R2516	ERJ3GEYJ333V	33K 1/16W	[M]
R2517	ERJ3GEYJ123V	12K 1/16W	[M]
R2518	ERJ3GEYJ103V	10K 1/16W	[M]
R2519	ERJ3GEYD752V	7.5K 1/16W	[M]
R2520	ERJ3GEYJ123V	12K 1/16W	[M]
R2521	ERJ3GEYJ103V	10K 1/16W	[M]
R2522	ERJ3GEYD752V	7.5K 1/16W	[M]
R2527	ERJ3GEYJ103V	10K 1/16W	[M]
R2528	ERJ3GEYJ103V	10K 1/16W	[M]
R3001	ERJ3GEYJ220V	22 1/16W	[M]
R3002	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3003	ERJ3GEYJ101V	100 1/16W	[M]
R3004	ERJ3GEYJ221V	220 1/16W	[M]
R3005	ERJ3GEYJ473V	47K 1/16W	[M]
R3051	ERJ3GEYD752V	7.5K 1/16W	[M]
R3052	ERJ3GEYJ101V	100 1/16W	[M]
R3055	ERJ3GEYD752V	7.5K 1/16W	[M]
R3057	ERJ3GEYD183V	18K 1/16W	[M]
R3058	ERJ3RBD432V	4.3K 3W	[M]
R3059	ERJ3GEYD752V	7.5K 1/16W	[M]
R3060	ERJ3GEYD752V	7.5K 1/16W	[M]
R3061	ERJ3GEYJ101V	100 1/16W	[M]
R3071	ERJ3GEYJ103A	10K 1/16W	[M]
R3081	ERJ3GEYD750V	75 1/16W	[M]
R3082	ERJ3GEYJ330V	33 1/16W	[M]
R3083	ERJ3GEYJ102A	1K 1/16W	[M]
R3084	ERJ3GEYD750V	75 1/16W	[M]
R3085	ERJ3GEYJ330V	33 1/16W	[M]
R3086	ERJ3GEYJ102V	1K 1/16W	[M]
R3087	ERJ3GEYD750V	75 1/16W	[M]
R3088	ERJ3GEYJ330V	33 1/16W	[M]
R3089	ERJ3GEYJ102A	1K 1/16W	[M]
R3090	ERJ3GEYD750V	75 1/16W	[M]
R3091	ERJ3GEYJ330V	33 1/16W	[M]
R3092	ERJ3GEYJ331V	330 1/16W	[M]
R3501	ERJ6GEYJ472V	4.7K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R3502	ERJ6GEYJ182V	1.8K 1/10W	[M]
R3507	ERJ6GEYJ561V	560 1/10W	[M]
R3508	ERJ6GEYJ102V	1K 1/10W	[M]
R3511	ERJ6ENF1001V	10 1/10W	[M]
R3512	ERJ6ENF1001V	10 1/10W	[M]
R3517	ERJ6GEYJ101V	100 1/10W	[M]
R3518	ERJ6GEYJ101V	100 1/10W	[M]
R3521	ERJ6GEYJ222V	2.2K 1/10W	[M]
R3526	ERJ6GEYJ103V	10K 1/10W	[M]
R3533	ERJ6ENF75R0V	5 1/10W	[M]
R3534	ERJ6ENF75R0V	5 1/10W	[M]
R3535	ERJ6ENF75R0V	5 1/10W	[M]
R3537	ERJ6ENF75R0V	5 1/10W	[M]
R3538	ERJ6ENF75R0V	5 1/10W	[M]
R3539	ERJ6ENF75R0V	5 1/10W	[M]
R3901	ERJ6GEYJ391V	390 1/10W	[M]
R3902	ERJ6GEYJ391V	390 1/10W	[M]
R3903	ERJ6GEYJ391V	390 1/10W	[M]
R3904	ERJ6GEYJ391V	390 1/10W	[M]
R4202	ERJ3GEYJ101V	100 1/16W	[M]
R4203	ERJ3GEYJ101V	100 1/16W	[M]
R4204	ERJ3GEYJ101V	100 1/16W	[M]
R4205	ERJ3GEYJ101V	100 1/16W	[M]
R4206	ERJ3GEYJ101V	100 1/16W	[M]
R4207	ERJ3GEYJ101V	100 1/16W	[M]
R4209	ERJ3GEYJ103A	10K 1/16W	[M]
R4211	ERJ3GEYJ101V	100 1/16W	[M]
R4212	ERJ3GEY0R00V	0 1/16W	[M]
R4212	ERJ3GEYJ222V	2.2K 1/16W	[M]
R4213	ERJ3GEY0R00V	0 1/16W	[M]
R4321	ERJ6GEYJ104V	100K 1/10W	[M]
R4322	ERA6YED392V	3.9K 1/10W	[M]
R4323	ERA6YED103V	10K 1/10W	[M]
R4324	ERA6YED822V	8.2K 1/10W	[M]
R4327	ERJ6GEYJ473V	47K 1/10W	[M]
R4331	ERJ6GEYJ104V	100K 1/10W	[M]
R4332	ERA6YED392V	3.9K 1/10W	[M]
R4333	ERA6YED103V	10K 1/10W	[M]
R4334	ERA6YED822V	8.2K 1/10W	[M]
R4338	ERJ6GEYJ473V	47K 1/10W	[M]
R4341	ERJ6GEYJ104V	100K 1/10W	[M]
R4342	ERJ6GEYJ302V	3K 1/10W	[M]
R4343	ERJ6GEYJ103V	10K 1/10W	[M]
R4344	ERJ6GEYJ123V	12K 1/10W	[M]
R4347	ERJ6GEYJ473V	47K 1/10W	[M]
R4351	ERJ6GEYJ104V	100K 1/10W	[M]
R4352	ERJ6GEYJ302V	3K 1/10W	[M]
R4353	ERJ6GEYJ103V	10K 1/10W	[M]
R4354	ERJ6GEYJ123V	12K 1/10W	[M]
R4357	ERJ6GEYJ473V	47K 1/10W	[M]
R4361	ERJ6GEYJ104V	100K 1/10W	[M]
R4362	ERJ6GEYJ302V	3K 1/10W	[M]
R4363	ERJ6GEYJ103V	10K 1/10W	[M]
R4364	ERJ6GEYJ123V	12K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R4367	ERJ6GEYJ473V	47K 1/10W	[M]
R4371	ERJ6GEYJ104V	100K 1/10W	[M]
R4372	ERJ6GEYJ472V	4.7K 1/10W	[M]
R4373	ERJ6GEYJ472V	4.7K 1/10W	[M]
R4374	ERJ6GEYJ362V	3.6K 1/10W	[M]
R4375	ERJ6GEYJ332V	3.3K 1/10W	[M]
R4376	ERJ6GEYJ153V	15K 1/10W	[M]
R4377	ERJ6GEYJ563V	56K 1/10W	[M]
R4378	ERJ6GEYJ473V	47K 1/10W	[M]
R4441	ERJ6GEYJ562V	5.6K 1/10W	[M]
R4442	ERJ6GEYJ392V	3.9K 1/10W	[M]
R4443	ERJ6GEYJ392V	3.9K 1/10W	[M]
R4444	ERJ6GEYJ562V	5.6K 1/10W	[M]
R4445	ERJ6GEYJ392V	3.9K 1/10W	[M]
R4446	ERJ6GEYJ562V	5.6K 1/10W	[M]
R4447	ERJ6GEYJ392V	3.9K 1/10W	[M]
R4448	ERJ6GEYJ473V	47K 1/10W	[M]
R4449	ERJ6GEYJ473V	47K 1/10W	[M]
R4451	ERJ6GEYJ562V	5.6K 1/10W	[M]
R4452	ERJ6GEYJ562V	5.6K 1/10W	[M]
R4453	ERJ6GEYJ392V	3.9K 1/10W	[M]
R4454	ERJ6GEYJ392V	3.9K 1/10W	[M]
R4455	ERJ6GEYJ562V	5.6K 1/10W	[M]
R4456	ERJ6GEYJ392V	3.9K 1/10W	[M]
R4457	ERJ6GEYJ392V	3.9K 1/10W	[M]
R4501	ERJ6GEYJ821V	820 1/10W	[M]
R4502	ERJ6GEYJ221V	220 1/10W	[M]
R4503	ERJ6GEYJ821V	820 1/10W	[M]
R4511	ERJ6GEYJ821V	820 1/10W	[M]
R4512	ERJ6GEYJ221V	220 1/10W	[M]
R4513	ERJ6GEYJ821V	820 1/10W	[M]
R4521	ERJ6GEYJ821V	820 1/10W	[M]
R4522	ERJ6GEYJ221V	220 1/10W	[M]
R4523	ERJ6GEYJ821V	820 1/10W	[M]
R4531	ERJ6GEYJ821V	820 1/10W	[M]
R4532	ERJ6GEYJ221V	220 1/10W	[M]
R4533	ERJ6GEYJ821V	820 1/10W	[M]
R4541	ERJ6GEYJ821V	820 1/10W	[M]
R4542	ERJ6GEYJ221V	220 1/10W	[M]
R4543	ERJ6GEYJ821V	820 1/10W	[M]
R4551	ERJ6GEYJ821V	820 1/10W	[M]
R4552	ERJ6GEYJ221V	220 1/10W	[M]
R4553	ERJ6GEYJ821V	820 1/10W	[M]
R4561	ERJ6GEYJ821V	820 1/10W	[M]
R4562	ERJ6GEYJ221V	220 1/10W	[M]
R4563	ERJ6GEYJ821V	820 1/10W	[M]
R4571	ERJ6GEYJ821V	820 1/10W	[M]
R4572	ERJ6GEYJ221V	220 1/10W	[M]
R4573	ERJ6GEYJ821V	820 1/10W	[M]
R4594	ERJ6GEYJ222V	2.2K 1/10W	[M]
R4595	ERJ6GEYJ222V	2.2K 1/10W	[M]
R4596	ERJ6GEYJ223V	22K 1/10W	[M]
R4598	ERJ6GEYJ331V	330 1/10W	[M]
R4599	ERJ6GEYJ472V	4.7K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R4600	ERJ6GEYJ102V	1K 1/10W	[M]
R4761	ERJ6GEYJ100V	10 1/10W	[M]
R4771	ERJ6GEYJ750V	75 1/10W	[M]
R4901	ERJ6RBD822V	8.2K 1/10W	[M]
R4902	ERJ6RBD152V	1.5K 1/10W	[M]
R4903	ERJ6GEYJ333V	33K 1/10W	[M]
R4911	ERJ6RBD822V	8.2K 1/10W	[M]
R4912	ERJ6GEYJ331V	330 1/10W	[M]
R4913	ERJ6GEYJ103V	10K 1/10W	[M]
R4914	ERJ6GEYJ472V	4.7K 1/10W	[M]
R4915	ERJ6GEYJ101V	100 1/10W	[M]
R4916	ERJ6GEYJ101V	100 1/10W	[M]
R4917	ERJ6GEYJ101V	100 1/10W	[M]
R4919	ERJ6GEYJ821V	820 1/10W	[M]
R4920	ERJ6GEYJ821V	820 1/10W	[M]
R4921	ERJ6GEYJ821V	820 1/10W	[M]
R4923	ERJ6GEYJ223V	22K 1/10W	[M]
R5201	ERJ12YJ270H	27 1/2W	[M] ⚠
R5202	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5203	ERJ3GEYJ223V	22K 1/16W	[M]
R5204	ERJ3GEYJ123V	12K 1/16W	[M]
R5206	ERJ3GEYJ154V	150K 1/16W	[M]
R5207	ERJ3GEYD562V	5.6K 1/16W	[M]
R5208	ERJ3GEYJ101V	100 1/16W	[M]
R5209	ERJ3GEYD303V	30K 1/16W	[M]
R5210	ERJ3GEYD473V	47K 1/16W	[M]
R5211	ERJ3GEYD183V	18K 1/16W	[M]
R5212	ERJ3GEYD562V	5.6K 1/16W	[M]
R5213	ERJ3GEYJ103V	10K 1/16W	[M]
R5214	ERJ3GEYJ105V	1M 1/16W	[M]
R5215	ERJ3GEYJ105V	1M 1/16W	[M]
R5216	ERJ3GEYJ105V	1M 1/16W	[M]
R5217	ERJ3GEY0R00V	0 1/16W	[M]
R5219	ERJ3GEYJ101V	100 1/16W	[M]
R5220	ERJ3GEYJ101V	100 1/16W	[M]
R6001	ERJ6GEYJ221V	220 1/10W	[M]
R6002	ERJ6GEYJ221V	220 1/10W	[M]
R6003	ERJ6GEYJ221V	220 1/10W	[M]
R6004	ERJ6GEYJ221V	220 1/10W	[M]
R6005	ERJ6GEYJ221V	220 1/10W	[M]
R6006	ERJ6GEYJ271V	270 1/10W	[M]
R6007	ERJ6GEYJ473V	47K 1/10W	[M]
R6008	ERJ6GEYJ473V	47K 1/10W	[M]
R6009	ERJ6GEYJ473V	47K 1/10W	[M]
R6010	ERJ6GEYJ473V	47K 1/10W	[M]
R6011	ERJ6GEYJ473V	47K 1/10W	[M]
R6012	ERJ6GEYJ473V	47K 1/10W	[M]
R6013	ERJ6GEYJ473V	47K 1/10W	[M]
R6014	ERJ6GEYJ473V	47K 1/10W	[M]
R6015	ERJ6GEYJ104V	100K 1/10W	[M]
R6016	ERJ6GEYJ104V	100K 1/10W	[M]
R6018	ERJ6GEYJ271V	270 1/10W	[M]
R6021	ERJ6GEYJ221V	220 1/10W	[M]
R6022	ERJ6GEYJ221V	220 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6023	ERJ6GEYJ221V	220 1/10W	[M]
R6024	ERJ6GEYJ221V	220 1/10W	[M]
R6025	ERJ6GEYJ221V	220 1/10W	[M]
R6026	ERJ6GEYJ221V	220 1/10W	[M]
R6027	ERJ6GEYJ221V	220 1/10W	[M]
R6028	ERJ6GEYJ221V	220 1/10W	[M]
R6029	ERJ6GEYJ221V	220 1/10W	[M]
R6030	ERJ6GEYJ221V	220 1/10W	[M]
R6033	ERJ6GEYJ331V	330 1/10W	[M]
R6034	ERJ6GEYJ473V	47K 1/10W	[M]
R6035	ERJ6GEYJ222V	2.2K 1/10W	[M]
R6038	ERJ6GEYJ221V	220 1/10W	[M]
R6039	ERJ6GEYJ103V	10K 1/10W	[M]
R6041	ERJ6GEYJ103V	10K 1/10W	[M]
R6042	ERJ6GEYJ103V	10K 1/10W	[M]
R6043	ERJ6GEYJ103V	10K 1/10W	[M]
R6044	ERJ6GEYJ821V	820 1/10W	[M]
R6045	ERJ6GEYJ102V	1K 1/10W	[M]
R6046	ERJ6GEYJ122V	1.2K 1/10W	[M]
R6047	ERJ6GEYJ152V	1.5K 1/10W	[M]
R6048	ERJ6GEYJ182V	1.8K 1/10W	[M]
R6049	ERJ6GEYJ222V	2.2K 1/10W	[M]
R6050	ERJ6GEYJ332V	3.3K 1/10W	[M]
R6051	ERJ6GEYJ472V	4.7K 1/10W	[M]
R6052	ERJ6GEYJ682V	6.8K 1/10W	[M]
R6053	ERJ6GEYJ123V	12K 1/10W	[M]
R6056	ERJ6GEYJ821V	820 1/10W	[M]
R6057	ERJ6GEYJ102V	1K 1/10W	[M]
R6058	ERJ6GEYJ122V	1.2K 1/10W	[M]
R6059	ERJ6GEYJ152V	1.5K 1/10W	[M]
R6060	ERJ6GEYJ182V	1.8K 1/10W	[M]
R6061	ERJ6GEYJ222V	2.2K 1/10W	[M]
R6062	ERJ6GEYJ332V	3.3K 1/10W	[M]
R6063	ERJ6GEYJ472V	4.7K 1/10W	[M]
R6064	ERJ6GEYJ682V	6.8K 1/10W	[M]
R6065	ERJ6GEYJ123V	12K 1/10W	[M]
R6066	ERJ6GEYJ223V	22K 1/10W	[M]
R6067	ERJ6GEYJ683V	68K 1/10W	[M]
R6068	ERJ6GEYJ821V	820 1/10W	[M]
R6069	ERJ6GEYJ102V	1K 1/10W	[M]
R6070	ERJ6GEYJ122V	1.2K 1/10W	[M]
R6071	ERJ6GEYJ152V	1.5K 1/10W	[M]
R6072	ERJ6GEYJ182V	1.8K 1/10W	[M]
R6073	ERJ6GEYJ222V	2.2K 1/10W	[M]
R6074	ERJ6GEYJ332V	3.3K 1/10W	[M]
R6075	ERJ6GEYJ472V	4.7K 1/10W	[M]
R6076	ERJ6GEYJ682V	6.8K 1/10W	[M]
R6081	ERJ6GEYJ103V	10K 1/10W	[M]
R6082	ERJ6GEYJ102V	1K 1/10W	[M]
R6083	ERJ6GEYJ223V	22K 1/10W	[M]
R6084	ERJ6GEYJ472V	4.7K 1/10W	[M]
R6085	ERJ6GEYJ221V	220 1/10W	[M]
R6086	ERJ6GEYJ221V	220 1/10W	[M]
R6087	ERJ6GEYJ101V	100 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6088	ERJ6GEYJ221V	220 1/10W	[M]
R6091	ERJ6GEYJ221V	220 1/10W	[M]
R6092	ERJ6GEYJ221V	220 1/10W	[M]
R6093	ERJ6GEYJ221V	220 1/10W	[M]
R6094	ERJ6GEYJ221V	220 1/10W	[M]
R6095	ERJ6GEYJ221V	220 1/10W	[M]
R6096	ERJ6GEYJ271V	270 1/10W	[M]
R6098	ERJ6GEYJ271V	270 1/10W	[M]
R6101	ERJ3GEYJ103A	10K 1/16W	[M]
R6102	ERJ3GEY0R00V	0 1/16W	[M]
R6201	ERJ3GEYJ103A	10K 1/16W	[M]
R6202	ERJ3GEYJ223V	22K 1/16W	[M]
R6203	ERJ3GEYJ473V	47K 1/16W	[M]
R6204	ERJ3GEYJ471V	470 1/16W	[M]
R6208	ERJ3GEYJ103V	10K 1/16W	[M]
R6209	ERJ3GEYD151V	150 1/16W	[M]
R6210	ERJ3GEYD471V	470 1/16W	[M]
R6211	ERJ3GEYD391V	390 1/16W	[M]
R6212	ERJ3GEYJ473V	47K 1/16W	[M]
R6213	ERJ3GEYJ102A	1K 1/16W	[M]
R6214	ERJ3GEYJ102A	1K 1/16W	[M]
R6301	ERJ3GEYJ103A	10K 1/16W	[M]
R6302	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6303	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6502	ERJ3GEYJ221V	220 1/16W	[M]
R6503	ERJ3GEYJ103A	10K 1/16W	[M]
R6504	ERJ3GEYJ103A	10K 1/16W	[M]
R6505	ERJ3GEY0R00V	0 1/16W	[M]
R7001	ERJ3GEYJ102A	1K 1/16W	[M]
R7002	ERJ3GEYJ473V	47K 1/16W	[M]
K3001	ERJ3GEY0R00V	0 1/16W	[M]
K3002	ERJ14Y0R00H	0 1/16W	[M]
K3511	ERJ6GEY0R00V	0 1/10W	[M]
K6001	VLP0323A601R	CHIP INDUCTOR	[M]
K6002	VLP0323A601R	CHIP INDUCTOR	[M]
K6004	ERJ3GEY0R00V	0 1/16W	[M]
K6005	ERJ3GEY0R00V	0 1/16W	[M]
K6005	ERJ6GEY0R00V	0 1/10W	[M]
K6006	ERJ6GEY0R00V	0 1/10W	[M]
K6301	ERJ3GEY0R00V	0 1/16W	[M]
K6506	VLP0323A601R	CHIP INDUCTOR	[M]
K6531	ERJ3GEY0R00V	0 1/16W	[M]
RA3008	EXBV4V103JV	10K 1/16W	[M]
RA3009	EXBV4V221JV	220 1/16W	[M]
RA3010	EXBV4V221JV	220 1/16W	[M]
RA3011	EXBV4V473JV	47K 1/16W	[M]
RA6201	EXBV4V103JV	10K 1/16W	[M]
RA6202	EXBV4V103JV	10K 1/16W	[M]
RA6203	EXBV4V473JV	47K 1/16W	[M]
RA6204	EXBV4V103JV	10K 1/16W	[M]
RA6205	EXBV8V473JV	47K 1/16W	[M]
RA6206	EXBV4V103JV	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RA7001	EXBV8V473JV	47K 1/16W	[M]
RA7002	EXBV8V473JV	47K 1/16W	[M]
RA7003	EXBV8V473JV	47K 1/16W	[M]
		CAPACITORS	
C1001	VCF0183M683	83 100V	[M]
C1002	VCF0183M683	83 100V	[M] ⚠
C1003	VCK0299E102	99 250V	[M] ⚠
C1005	VCK0299E222	99 250V	[M] ⚠
C1011	ECA2EHG470E	47 250V	[M]
C1012	ECA2EHG470E	47 250V	[M]
C1021	VCK0266K471T	66 250V	[M]
C1031	VCK0266K182T	66 250V	[M]
C1041	ECQB1H223JM4	0.022 50V	[M]
C1051	ECQB1H104JM4	0.1 50V	[M]
C1052	ECQB1H683JM4	0.068 50V	[M]
C1053	ECQB1H104JM4	0.1 50V	[M]
C1061	VCEA0JJC470B	47P 6.3V	[M]
C1101	ECQV1H104JL2	0.1 50V	[M]
C1102	ECQB1H223JM4	0.022 50V	[M]
C1111	VCEA1AJH102B	1000P 10V	[M]
C1112	VCEA1AJC102B	1000P 10V	[M]
C1115	ECFR1E104ZF5	0.1 25V	[M]
C1116	VCEA1AJC221B	220P 10V	[M]
C1117	ECA0JM102B	1000P 6.3V	[M]
C1121	VCEA1AJH102B	1000P 10V	[M]
C1122	VCEA1AJC102B	1000P 10V	[M]
C1125	ECA0JM102B	1000P 6.3V	[M]
C1131	VCEA1VJH151B	150P 35V	[M]
C1133	VCEA1EJC330B	33P 25V	[M]
C1141	VCEA1VJH151B	150P 35V	[M]
C1143	VCEA1EJC330B	33P 25V	[M]
C1151	VCEA1EJH271B	270P 25V	[M]
C1153	VCEA1EJC221B	220P 25V	[M]
C1154	VCEA1CJC221B	220P 16V	[M]
C1161	VCEA1HJH560B	56P 50V	[M]
C1171	VCEA1AJH181B	180P 10V	[M]
C2001	ECEV0JA101SP	100 6.3V	[M]
C2002	ECUVNC104ZFV	0.1 16V	[M]
C2003	ECEV0JA101SP	100 6.3V	[M]
C2004	ECUVNC104ZFV	0.1 16V	[M]
C2005	ECEV0JA101SP	100 6.3V	[M]
C2007	ECUVNH103KBV	0.01 50V	[M]
C2008	ECUVNC104ZFV	0.1 16V	[M]
C2009	ECUVNC104ZFV	0.1 16V	[M]
C2010	ECUV1H101KCV	100P 50V	[M]
C2012	ECUV1H331KBV	330P 50V	[M]
C2013	ECUV1H121JCV	120P 50V	[M]
C2014	ECUV1H121JCV	120P 50V	[M]
C2015	ECUV1H121JCV	120P 50V	[M]
C2016	ECUV1H101KCV	100P 50V	[M]
C2017	ECUV1H101KCV	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2018	ECUV1H391KBV	390P 50V	[M]
C2019	ECUV1H391KBV	390P 50V	[M]
C2020	ECUVNC104ZFV	0.1 16V	[M]
C2021	ECUVNC104KBV	0.1 16V	[M]
C2022	ECUVNC104KBV	0.1 16V	[M]
C2023	ECUV1H682KBV	6800P 50V	[M]
C2024	ECUV1H681KBV	680P 50V	[M]
C2025	ECUVNC104KBV	0.1 16V	[M]
C2026	ECUVNC104ZFV	0.1 16V	[M]
C2027	ECUVNA105ZFV	1 10V	[M]
C2028	ECUVNC104ZFV	0.1 16V	[M]
C2029	ECUV1H470KCV	47P 50V	[M]
C2030	ECUVNE183KBV	0.083 25V	[M]
C2031	ECUV1H102KBV	1000P 50V	[M]
C2032	ECUVNC104ZFV	0.1 16V	[M]
C2033	ECUVNJ474KBV	0.74 6.3V	[M]
C2034	ECUVNH103KBV	0.01 50V	[M]
C2035	ERJ3GEY0R00V	0 1/16W	[M]
C2037	ECUVNC104ZFV	0.1 16V	[M]
C2038	ECUVNC473KBV	0.047 16V	[M]
C2039	ECUVNC393KBV	0.093 16V	[M]
C2040	ECUV1H822KBV	8200P 50V	[M]
C2041	ECUVNC104ZFV	0.1 16V	[M]
C2042	ECUVNC104KBV	0.1 16V	[M]
C2043	ECUVNC473KBV	0.047 16V	[M]
C2044	ECUVNC104KBV	0.1 16V	[M]
C2045	ECUVNC104ZFV	0.1 16V	[M]
C2046	ECUVNC104ZFV	0.1 16V	[M]
C2047	ECUVNC104ZFV	0.1 16V	[M]
C2048	ECUVNC104ZFV	0.1 16V	[M]
C2051	ECUVNC104ZFV	0.1 16V	[M]
C2060	ECUVNC104ZFV	0.1 16V	[M]
C2061	ECUVNC104ZFV	0.1 16V	[M]
C2062	ECUVNC104ZFV	0.1 16V	[M]
C2063	ECUVNC104ZFV	0.1 16V	[M]
C2064	ECUVNC104ZFV	0.1 16V	[M]
C2071	ECUV1H270JCV	27P 50V	[M]
C2072	ECUV1H270JCV	27P 50V	[M]
C2073	ECUV1H270JCV	27P 50V	[M]
C2074	ECUV1H270JCV	27P 50V	[M]
C2075	ECUV1H270JCV	27P 50V	[M]
C2076	ECUV1H100JCV	10P 50V	[M]
C2077	ECUV1H270JCV	27P 50V	[M]
C2078	ECUV1H270JCV	27P 50V	[M]
C2079	ECUV1H270JCV	27P 50V	[M]
C2080	ECUV1H270JCV	27P 50V	[M]
C2500	EEVFC1C101P	100P 16V	[M]
C2501	ECEV0JA101SP	100 6.3V	[M]
C2502	EEVFC0J221P	220P 6.3V	[M]
C2503	ECUVNH103KBV	0.01 50V	[M]
C2504	ECUVNH103KBV	0.01 50V	[M]
C2505	ECUVNH103KBV	0.01 50V	[M]
C2506	ECUVNC104ZFV	0.1 16V	[M]
C2507	ECUVNC104KBV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2508	ECUVNC104ZFV	0.1 16V	[M]
C2509	ECUVNC104ZFV	0.1 16V	[M]
C2513	ECUVNC104ZFV	0.1 16V	[M]
C2514	ECUVNC104ZFV	0.1 16V	[M]
C2515	ECUVNC104KBV	0.1 16V	[M]
C2516	ECEV0JA470SR	47 6.3V	[M]
C2525	ECUVNC104ZFV	0.1 16V	[M]
C3001	ECEV0JA331P	330 6.3V	[M]
C3002	ECEV0JA331P	330 6.3V	[M]
C3003	ECEV0JA331P	330 6.3V	[M]
C3004	ECUVNC104ZFV	0.1 16V	[M]
C3005	ECUVNC104ZFV	0.1 16V	[M]
C3006	ECUVNC104ZFV	0.1 16V	[M]
C3007	ECUVNC104ZFV	0.1 16V	[M]
C3008	ECUVNC104ZFV	0.1 16V	[M]
C3009	ECUVNC104ZFV	0.1 16V	[M]
C3010	ECUVNC104ZFV	0.1 16V	[M]
C3011	ECUVNC104ZFV	0.1 16V	[M]
C3012	ECUVNC104ZFV	0.1 16V	[M]
C3013	ECUVNC104ZFV	0.1 16V	[M]
C3014	ECUVNC104ZFV	0.1 16V	[M]
C3015	ECUVNC104ZFV	0.1 16V	[M]
C3016	ECUVNC104ZFV	0.1 16V	[M]
C3017	ECUVNC104ZFV	0.1 16V	[M]
C3018	ECUVNC104ZFV	0.1 16V	[M]
C3019	ECUVNC104ZFV	0.1 16V	[M]
C3020	ECUVNC104ZFV	0.1 16V	[M]
C3021	ECUVNC104ZFV	0.1 16V	[M]
C3022	ECUVNC104ZFV	0.1 16V	[M]
C3023	ECUVNC104ZFV	0.1 16V	[M]
C3024	ECUVNC104ZFV	0.1 16V	[M]
C3025	ECUVNC104ZFV	0.1 16V	[M]
C3026	ECUVNC104ZFV	0.1 16V	[M]
C3027	ECUVNC104ZFV	0.1 16V	[M]
C3028	ECUVNC104ZFV	0.1 16V	[M]
C3029	ECUVNC104ZFV	0.1 16V	[M]
C3030	ECUVNC104ZFV	0.1 16V	[M]
C3031	ECUVNC104ZFV	0.1 16V	[M]
C3032	ECUVNC104ZFV	0.1 16V	[M]
C3033	ECUVNC104ZFV	0.1 16V	[M]
C3034	ECUVNC104ZFV	0.1 16V	[M]
C3035	ECUVNC104ZFV	0.1 16V	[M]
C3036	ECUV1H220JCV	22P 50V	[M]
C3042	ECUVNC104ZFV	0.1 16V	[M]
C3043	ECUVNC104ZFV	0.1 16V	[M]
C3044	ECEV0JA101SP	100 6.3V	[M]
C3045	ECUVNC104ZFV	0.1 16V	[M]
C3046	ECST1AY106RR	10 10V	[M]
C3047	ECUVNC104ZFV	0.1 16V	[M]
C3048	ECUVNC104ZFV	0.1 16V	[M]
C3051	ECEV0JA331P	330 6.3V	[M]
C3052	ECUVNA105KBN	1 10V	[M]
C3053	ECUVNA105KBN	1 10V	[M]
C3054	ECUVNA105KBN	1 10V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3055	ECUVNA105KBN	1 10V	[M]
C3056	ECUVNC104KBV	0.1 16V	[M]
C3057	ECUVNC104KBV	0.1 16V	[M]
C3058	ECUVNC104KBV	0.1 16V	[M]
C3059	ECUVNC104ZFV	0.1 16V	[M]
C3060	ECUVNC104ZFV	0.1 16V	[M]
C3061	ECUVNC104ZFV	0.1 16V	[M]
C3062	ECUVNC104ZFV	0.1 16V	[M]
C3063	ECUVNC104ZFV	0.1 16V	[M]
C3064	ECUVNC104ZFV	0.1 16V	[M]
C3065	ECST1AY106RR	10 10V	[M]
C3066	ECUVNC104ZFV	0.1 16V	[M]
C3067	ECUV1H102KBV	1000P 50V	[M]
C3082	ECUVNC104KBV	0.1 16V	[M]
C3083	ECUVNC104KBV	0.1 16V	[M]
C3084	ECUVNC104KBV	0.1 16V	[M]
C3085	ECUVNC104KBV	0.1 16V	[M]
C3091	ECEV0JA101SP	100 6.3V	[M]
C3092	ECEV0JA101SP	100 6.3V	[M]
C3093	ECUVNC104ZFV	0.1 16V	[M]
C3094	ECST1AY106RR	10 10V	[M]
C3095	ECUVNC104ZFV	0.1 16V	[M]
C3500	ECA0JM471B	470 6.3V	[M]
C3501	ECA0JM221B	220 6.3V	[M]
C3502	ECUVNH103KBV	0.01 50V	[M]
C3503	ECUV1H471KBV	470P 50V	[M]
C3504	ECUVNH103KBV	0.01 50V	[M]
C3505	ECEA1CKA470B	47 16V	[M]
C3506	ECEA1CKA470B	47 16V	[M]
C3506	ECUV1H330JCV	33P 50V	[M]
C3507	ECUV1H100DCV	10P 50V	[M]
C3507	ECUVNH103KBV	0.01 50V	[M]
C3508	ECEA1CU471B	470 16V	[M]
C3508	ECUV1H100DCV	10P 50V	[M]
C3509	ECEA1CU471B	470 16V	[M]
C3509	ECUV1H100DCV	10P 50V	[M]
C3511	ECA0JM102B	1000P 6.3V	[M]
C3512	ECA0JM102B	1000P 6.3V	[M]
C3513	ECEA1CKA101B	100 16V	[M]
C3514	ECEA1CKA101B	100 16V	[M]
C3515	ECUVNH103KBV	0.01 50V	[M]
C3516	ECUZ1H100DCN	10 50V	[M]
C3517	ECUZ1H100DCN	10 50V	[M]
C3518	ECUZ1H100DCN	10 50V	[M]
C3536	ECUVNH103KBV	0.01 50V	[M]
C3542	ECUVNH103KBV	0.01 50V	[M]
C3543	ECUVNH103KBV	0.01 50V	[M]
C3553	ECA0JPX102B	1000 6.3V	[M]
C3554	ECKR1H103ZF5	0.01 50V	[M]
C3901	ECUVNH103KBV	0.01 50V	[M]
C3903	ECEA1CKA470B	47 16V	[M]
C3906	ECUV1H101JCN	100 50V	[M]
C3907	ECUV1H331KBV	330 50V	[M]
C3908	ECUV1H331KBV	330 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C4001	ECUV1H331KBV	330 50V	[M]
C4002	ECUV1H331KBV	330 50V	[M]
C4003	ECUV1H102JCV	1000P 50V	[M]
C4201	ECEV0JA331P	330 6.3V	[M]
C4209	ECUVNC104ZFV	0.1 16V	[M]
C4210	ECUV1H101JCV	100P 50V	[M]
C4211	ECUV1H101JCV	100P 50V	[M]
C4212	ECST1AY106RR	10 10V	[M]
C4213	ECUVNC104ZFV	0.1 16V	[M]
C4214	ECST1AY106RR	10 10V	[M]
C4215	ECST1AY106RR	10 10V	[M]
C4216	ECUVNC104ZFV	0.1 16V	[M]
C4217	ECUVNC104ZFV	0.1 16V	[M]
C4218	ECST1AY106RR	10 10V	[M]
C4219	ECUV1H101JCV	100P 50V	[M]
C4220	ECUV1H101JCV	100P 50V	[M]
C4221	ECUV1H101JCV	100P 50V	[M]
C4222	ECUV1H101JCV	100P 50V	[M]
C4223	ECUVNC104ZFV	0.1 16V	[M]
C4225	ECEV0JA331P	330 6.3V	[M]
C4227	ECEV0JA331P	330 6.3V	[M]
C4228	ECEV0JA101SP	100 6.3V	[M]
C4231	ECUVNC104ZFV	0.1 16V	[M]
C4232	ECUVNC104ZFV	0.1 16V	[M]
C4233	ECST1AY106RR	10 10V	[M]
C4321	ECA1CAK470XB	47 16V	[M]
C4322	ECWM1H102JZ5	1000P 50V	[M]
C4323	ECWM1H101JZ5	100P 50V	[M]
C4325	ECA1CAK470XB	47 16V	[M]
C4328	ECUV1C104ZFV	0.1 16V	[M]
C4329	ECUV1C104ZFV	0.1 16V	[M]
C4331	ECA1CAK470XB	47 16V	[M]
C4332	ECWM1H102JZ5	1000P 50V	[M]
C4333	ECWM1H101JZ5	100P 50V	[M]
C4335	ECA1CAK470XB	47 16V	[M]
C4341	ECA1CAK100XB	10 16V	[M]
C4342	ECUV1H102JCV	1000P 50V	[M]
C4343	ECUV1H680JCV	68P 50V	[M]
C4345	ECA1CAK470XB	47 16V	[M]
C4351	ECA1CAK100XB	10 16V	[M]
C4352	ECUV1H102JCV	1000P 50V	[M]
C4353	ECUV1H680JCV	68P 50V	[M]
C4355	ECA1CAK470XB	47 16V	[M]
C4356	ECUV1C104ZFV	0.1 16V	[M]
C4357	ECUV1C104ZFV	0.1 16V	[M]
C4361	ECA1CAK100XB	10 16V	[M]
C4362	ECUV1H102JCV	1000P 50V	[M]
C4363	ECUV1H680JCV	68P 50V	[M]
C4365	ECA1CAK470XB	47 16V	[M]
C4371	ECA1CAK470XB	47 16V	[M]
C4372	ECUV1H102JCV	1000P 50V	[M]
C4373	ECUV1H102JCV	1000P 50V	[M]
C4374	ECUV1H180JCV	18P 50V	[M]
C4375	ECUV1H180JCV	18P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C4376	ECEA1AKN470B	47 10V	[M]
C4377	ECUV1C104ZFV	0.1 16V	[M]
C4378	ECUV1C104ZFV	0.1 16V	[M]
C4379	ECUV1C104ZFV	0.1 16V	[M]
C4380	ECUV1C104ZFV	0.1 16V	[M]
C4441	ECA1CAK470XB	47 16V	[M]
C4442	ECA1CAK470XB	47 16V	[M]
C4443	ECUV1C104ZFV	0.1 16V	[M]
C4444	ECUV1C104ZFV	0.1 16V	[M]
C4451	ECUV1C104ZFV	0.1 16V	[M]
C4452	ECUV1C104ZFV	0.1 16V	[M]
C4501	ECUV1H102JCV	1000P 50V	[M]
C4511	ECUV1H102JCV	1000P 50V	[M]
C4521	ECUV1H102JCV	1000P 50V	[M]
C4531	ECUV1H102JCV	1000P 50V	[M]
C4541	ECUV1H102JCV	1000P 50V	[M]
C4551	ECUV1H102JCV	1000P 50V	[M]
C4561	ECUV1H102JCV	1000P 50V	[M]
C4571	ECUV1H102JCV	1000P 50V	[M]
C4581	ECUV1C104ZFV	0.1 16V	[M]
C4582	ECUV1C104ZFV	0.1 16V	[M]
C4584	ECUV1C104ZFV	0.1 16V	[M]
C4585	ECUV1C104ZFV	0.1 16V	[M]
C4586	ECUV1C104ZFV	0.1 16V	[M]
C4592	ECUV1C104ZFV	0.1 16V	[M]
C4751	ECUV1C104ZFV	0.1 16V	[M]
C4753	ECUV1C104ZFV	0.1 16V	[M]
C4761	ECUV1H271KBV	270P 50V	[M]
C4763	ECUV1C104ZFV	0.1 16V	[M]
C4764	ECEA1HKA4R7B	4.7 50V	[M]
C4771	ECUV1C104ZFV	0.1 16V	[M]
C4772	ECUV1H151JCV	150P 50V	[M]
C4773	ECUV1H680JCV	68P 50V	[M]
C4774	ECUV1C104ZFV	0.1 16V	[M]
C4781	ECEA1HKA4R7B	4.7 50V	[M]
C4782	ECUV1C104ZFV	0.1 16V	[M]
C4901	VCEA1CJC470B	47P 16V	[M]
C4902	ECA1CAK101XB	100 16V	[M]
C4911	VCEA1EJC221B	220P 25V	[M]
C4912	VCEA1CJC470B	47P 16V	[M]
C4913	ECA1CAK101XB	100 16V	[M]
C5201	ECEV0JA330SR	33 6.3V	[M]
C5202	ECUVNC104ZFV	0.1 16V	[M]
C5203	ECUVNC104ZFV	0.1 16V	[M]
C5204	ECEV0JA330SR	33 6.3V	[M]
C5205	ECUVNC104ZFV	0.1 16V	[M]
C5206	ECUVNH103KBV	0.01 50V	[M]
C5211	ECEV0JA470SR	47 6.3V	[M]
C5212	ECUV1H221KBV	220P 50V	[M]
C5213	ECUVNC104ZFV	0.1 16V	[M]
C5214	ECUVNC104KBV	0.1 16V	[M]
C5215	ECUVNC104ZFV	0.1 16V	[M]
C5216	ECUV1H102KBV	1000P 50V	[M]
C5217	ECUVNC104KBV	0.1 16V	[M]

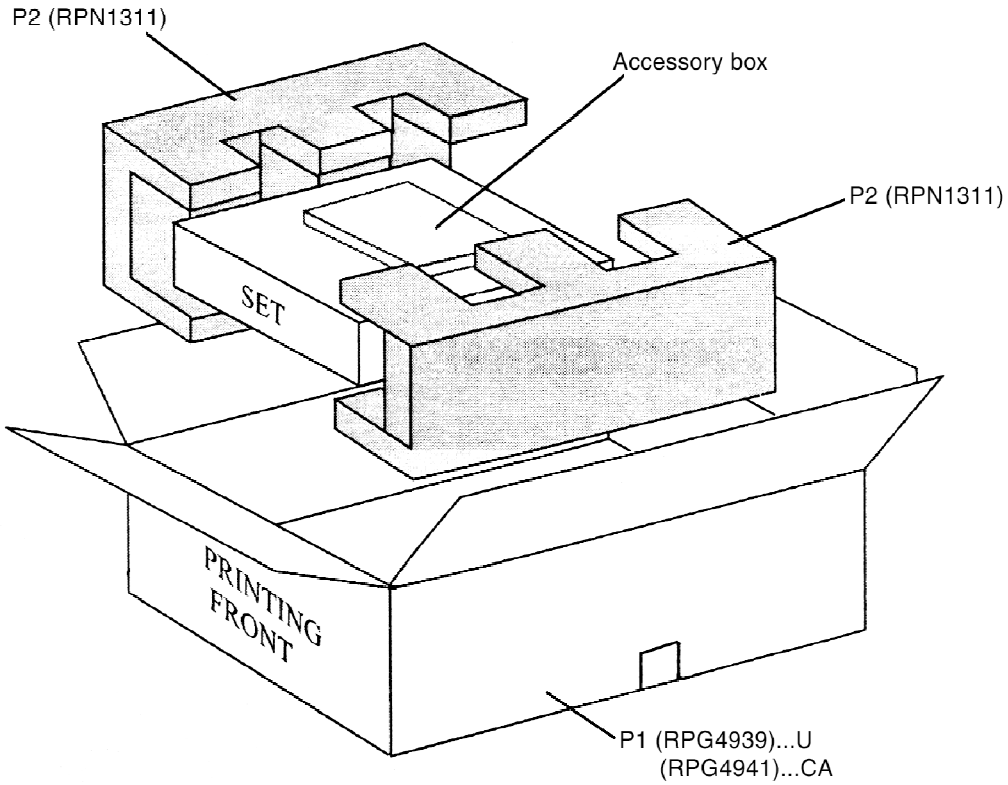
Ref. No.	Part No.	Part Name & Description	Remarks
C5218	ECUV1H180JCV	18P 50V	[M]
C5219	ECUV1H182KBV	1800P 50V	[M]
C5220	ECUV1H101KCV	100P 50V	[M]
C5221	ECUV1H390KCV	39P 50V	[M]
C5222	ECUVNJ474KBV	0.47 6.3V	[M]
C5223	ECUVNJ474KBV	0.47 6.3V	[M]
C5224	ECUV1H221KBV	220P 50V	[M]
C5225	ECUV1H221KBV	220P 50V	[M]
C5226	ECUVNC104KBV	0.1 16V	[M]
C5227	ECUVNC104ZFV	0.1 16V	[M]
C5233	ECST1AY106RR	10 10V	[M]
C5234	ECUVNC104ZFV	0.1 16V	[M]
C6001	ECEA0JKA331B	330 6.3V	[M]
C6001	ECUV1C104ZFV	0.1 16V	[M]
C6002	ECUV1C104ZFV	0.1 16V	[M]
C6003	ECEA1HKA330B	33 50V	[M]
C6004	ECUV1C104ZFV	0.1 16V	[M]
C6005	ECEA0JKA470B	47 6.3V	[M]
C6008	ECUV1C104ZFV	0.1 16V	[M]
C6009	ECUV1H331KBV	330P 50V	[M]
C6010	ECUV1H331KBV	330P 50V	[M]
C6011	ECUV1H331KBV	330P 50V	[M]
C6011	ECUVNH103KBV	0.01 50V	[M]
C6012	ECEV0JA101SP	100 6.3V	[M]
C6013	ECEV0JA101SP	100 6.3V	[M]
C6014	ECEV0JA331P	330 6.3V	[M]
C6015	ECEA0JKA331B	330 6.3V	[M]
C6015	ECEV0JA470SR	47 6.3V	[M]
C6016	ECUVNC104ZFV	0.1 16V	[M]
C6017	ECUVNC104ZFV	0.1 16V	[M]
C6018	ECUVNC104ZFV	0.1 16V	[M]
C6019	ECUVNC104ZFV	0.1 16V	[M]
C6020	ECUVNC104ZFV	0.1 16V	[M]
C6021	ECUVNC104ZFV	0.1 16V	[M]
C6021	ECUVNH103KBV	0.01 50V	[M]
C6022	ECUVNC104ZFV	0.1 16V	[M]
C6041	ECUVNH103KBV	0.01 50V	[M]
C6042	ECUVNH103KBV	0.01 50V	[M]
C6043	ECUVNH103KBV	0.01 50V	[M]
C6044	ECUV1H150JCV	15P 50V	[M]
C6045	ECUV1H330JCV	33P 50V	[M]
C6101	ECUVNC104ZFV	0.1 16V	[M]
C6102	ECUVNC104ZFV	0.1 16V	[M]
C6201	ECEV0JA470SR	47 6.3V	[M]
C6202	ECUVNC104ZFV	0.1 16V	[M]
C6203	ECUVNC104ZFV	0.1 16V	[M]
C6204	ECUVNC104ZFV	0.1 16V	[M]
C6206	ECUVNC104ZFV	0.1 16V	[M]
C6207	ECUVNC104ZFV	0.1 16V	[M]
C6211	ECUVNC104ZFV	0.1 16V	[M]
C6212	ECUVNC104ZFV	0.1 16V	[M]
C6253	ECUVNC104ZFV	0.1 16V	[M]
C6301	ECUV1H101JCV	100P 50V	[M]
C6302	ECUVNC104KBV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C6303	ECUVNC104ZFV	0.1 16V	[M]
C6304	ECUVNC104ZFV	0.1 16V	[M]
C6305	ECUVNC104ZFV	0.1 16V	[M]
C6501	ECEV0JA470SR	47 6.3V	[M]
C6502	ECUVNC104ZFV	0.1 16V	[M]
C6503	ECUVNC104ZFV	0.1 16V	[M]
C6504	ECST1AY106RR	10 10V	[M]
C6505	ECUVNC104ZFV	0.1 16V	[M]
C6511	ECUVNC104ZFV	0.1 16V	[M]
C6512	ECUVNC104ZFV	0.1 16V	[M]
C6513	ECUVNC104ZFV	0.1 16V	[M]
C6514	ECUV1H150JCV	15P 50V	[M]
C6515	ECUV1H150JCV	15P 50V	[M]
C6516	ECUVNC104ZFV	0.1 16V	[M]
C6517	ECUVNC104ZFV	0.1 16V	[M]
C6521	ECUVNC104ZFV	0.1 16V	[M]
C6551	ECUVNC104ZFV	0.1 16V	[M]
C6552	ECUVNC104ZFV	0.1 16V	[M]
C6553	ECST1AY106RR	10 10V	[M]
C7001	ECEV0JA101SP	100 6.3V	[M]
C7002	ECEV0JA101SP	100 6.3V	[M]
C7006	ECUVNC104ZFV	0.1 16V	[M]
C7011	ECUVNC104ZFV	0.1 16V	[M]
C7012	ECUVNC104ZFV	0.1 16V	[M]
C7013	ECUVNC104ZFV	0.1 16V	[M]
C7014	ECUVNC104ZFV	0.1 16V	[M]
C7015	ECUVNC104ZFV	0.1 16V	[M]
C7016	ECUVNC104ZFV	0.1 16V	[M]
C7017	ECUVNC104ZFV	0.1 16V	[M]
C7018	ECUVNC104ZFV	0.1 16V	[M]
C7019	ECUVNC104ZFV	0.1 16V	[M]
C7020	ECUVNC104ZFV	0.1 16V	[M]
C7021	ECUVNC104ZFV	0.1 16V	[M]
C7022	ECUVNC104ZFV	0.1 16V	[M]
C7023	ECUVNC104ZFV	0.1 16V	[M]
C7024	ECUVNC104ZFV	0.1 16V	[M]
C7025	ECUVNC104ZFV	0.1 16V	[M]
C7026	ECUVNC104ZFV	0.1 16V	[M]
C7101	ECUVNC104ZFV	0.1 16V	[M]

16.4. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG4939	PACKING CASE	[M]U
P1	RPG4941	PACKING CASE	[M]CA
P2	RPN1311	POLY FORM	[M]
P3	RPFX0031	MIRAMAT BAG	[M]
P6251	RJS2A8212T	PH CONNECTOR	[M]
		ACCESSORIES	
A1	RAK-DV965WK	REMOTE CONTROL	[M]
A2	RJA0065-A	AC CORD	[M] ⚠
A3	RQT5455-P	O/I BOOK (EN)	[M]
A3	RQT5456-C	O/I BOOK	[M]CA
A3	RQT5457-M	O/I BOOK	[M]U
A4	VJA0788-D	AUDIO VIDEO CORD	[M]

16.5. Packaging



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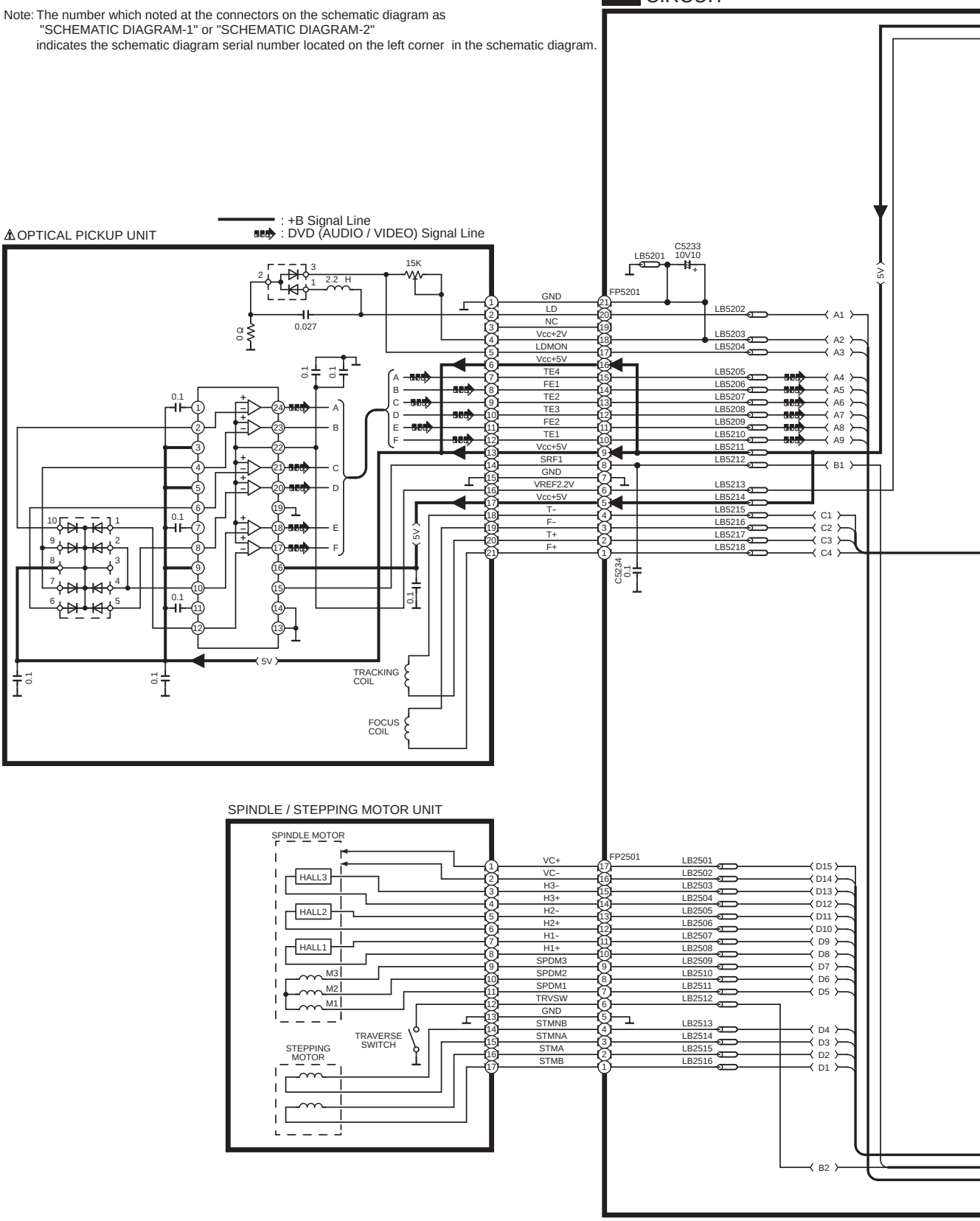
SCHEMATIC DIAGRAM-1

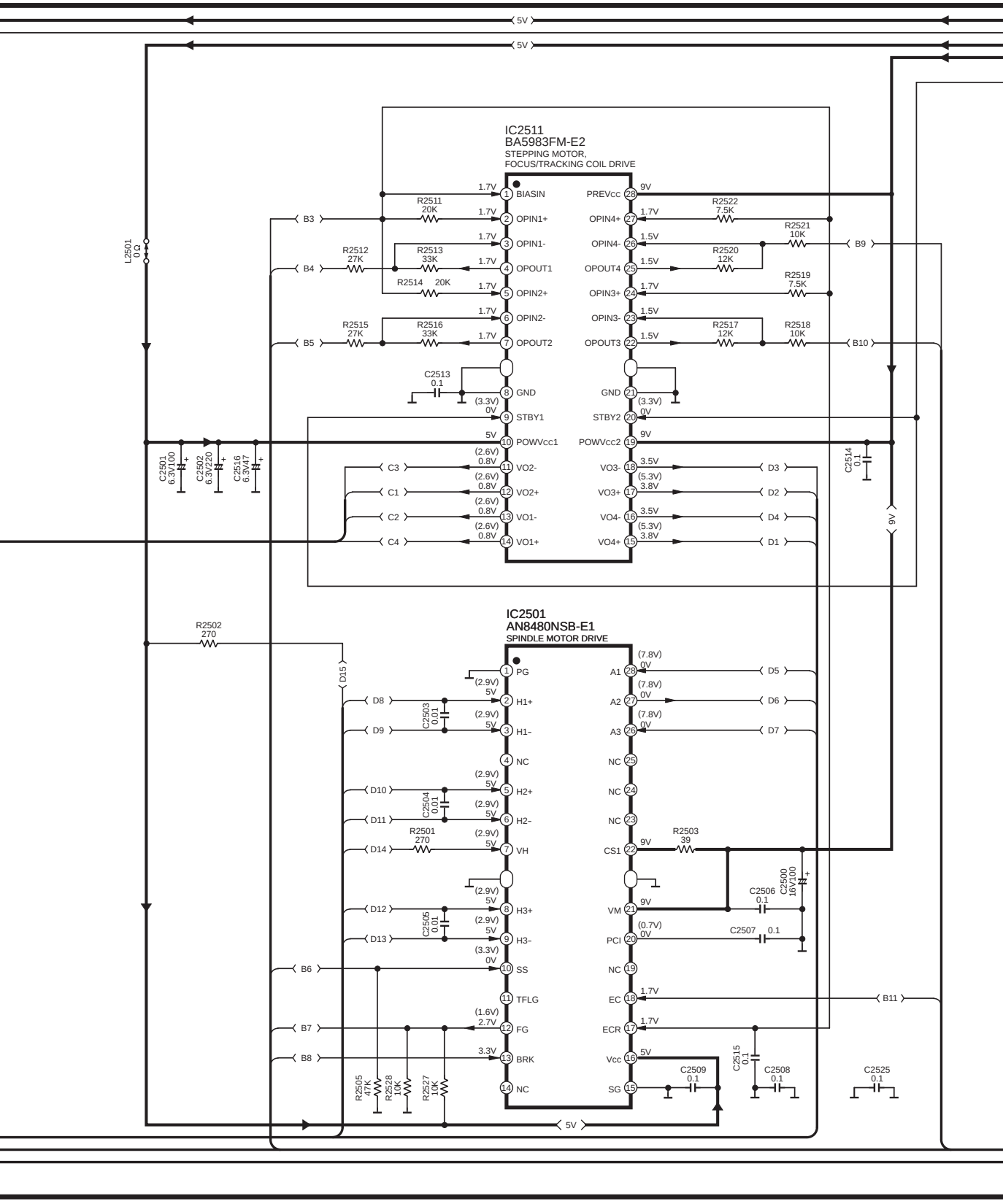
Note: The number which noted at the connectors on the schematic diagram as "SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2" indicates the schematic diagram serial number located on the left corner in the schematic diagram.

A DVD MODULE(2) CIRCUIT



SCHEMATIC DIAGRAM-2

: +B Signal Line

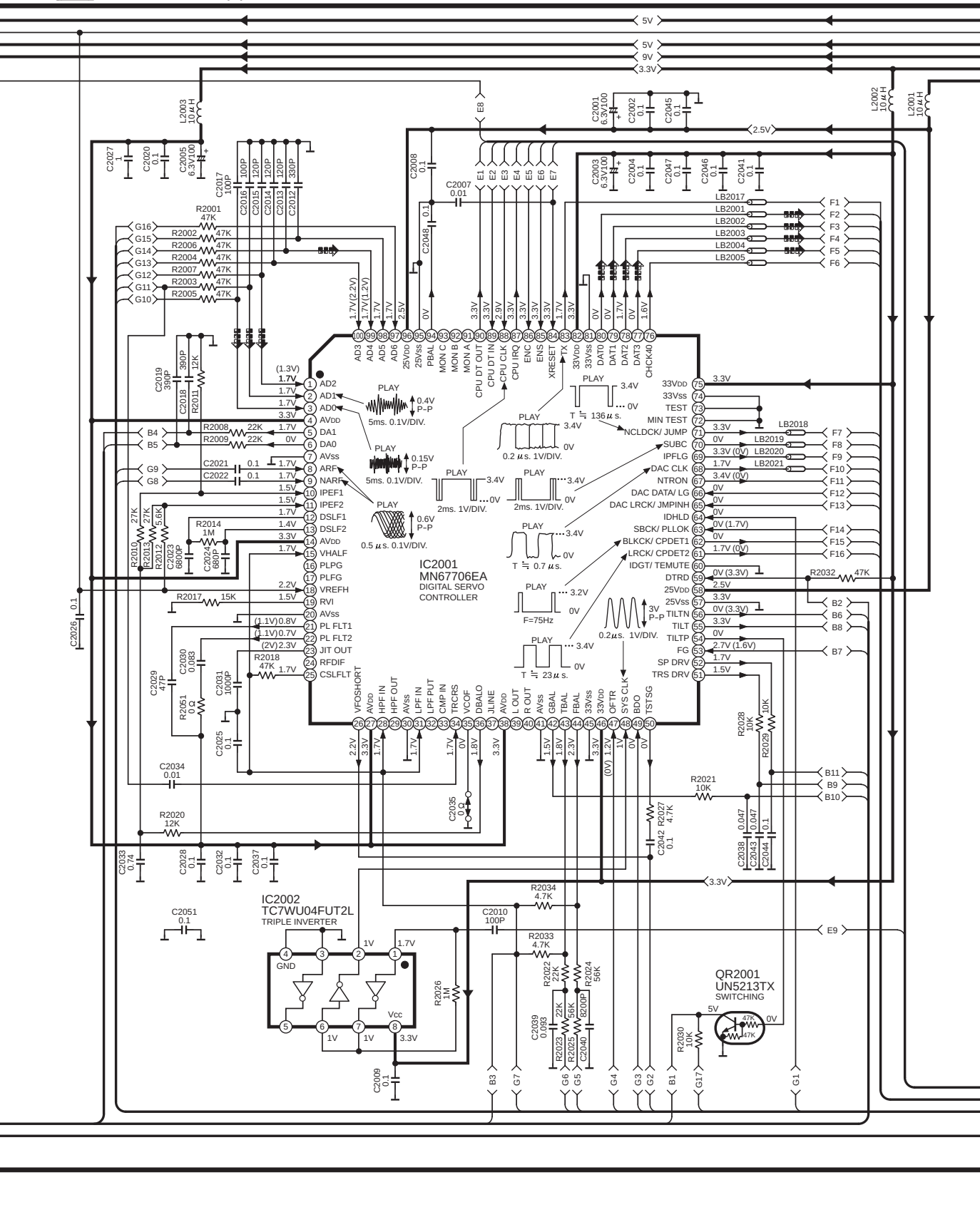


SCHEMATIC DIAGRAM-3

A DVD MODULE(2) CIRCUIT

: +B Signal Line

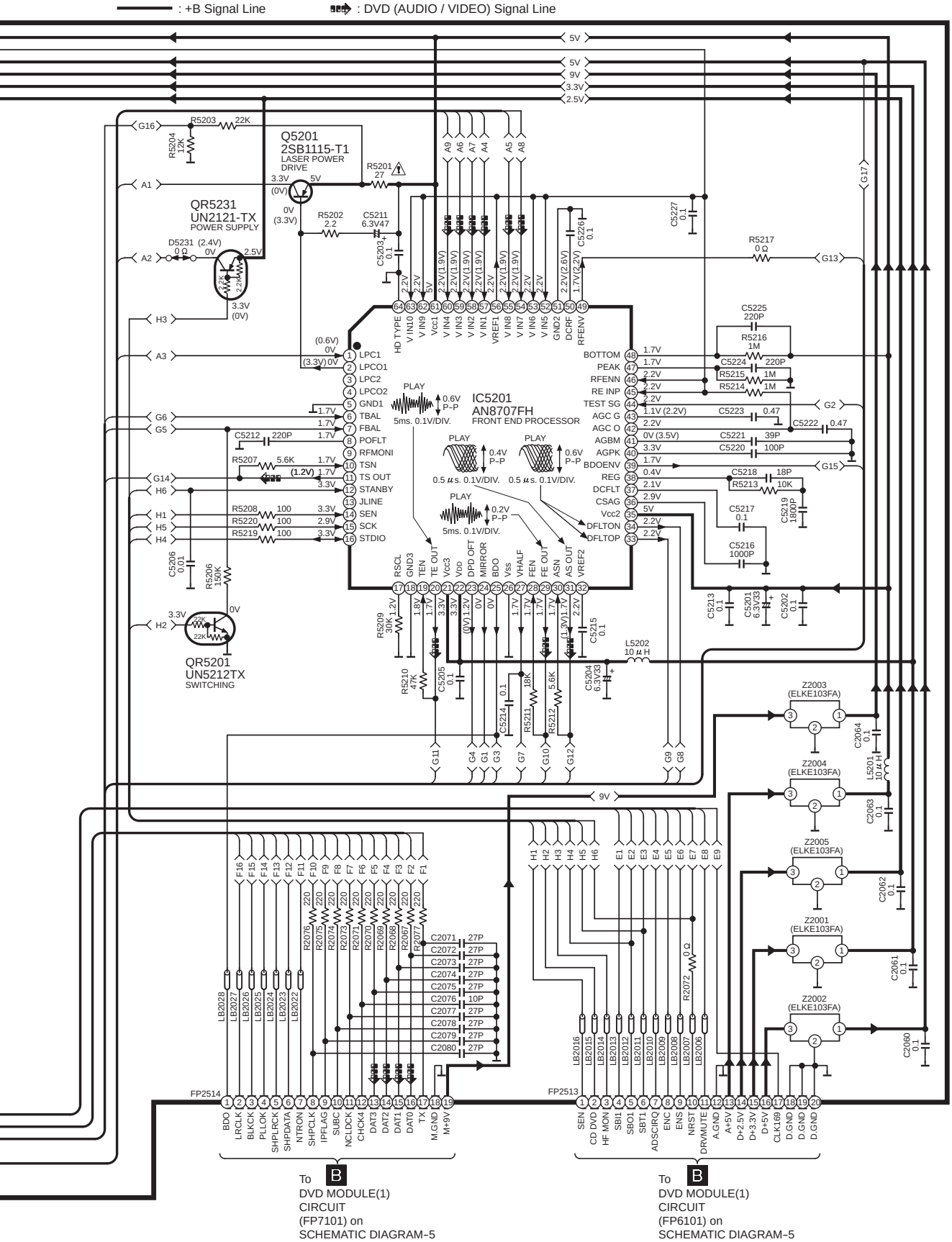
: DVD (AUDIO / VIDEO) Signal Line



SCHEMATIC DIAGRAM-4

: +B Signal Line

: DVD (AUDIO / VIDEO) Signal Line

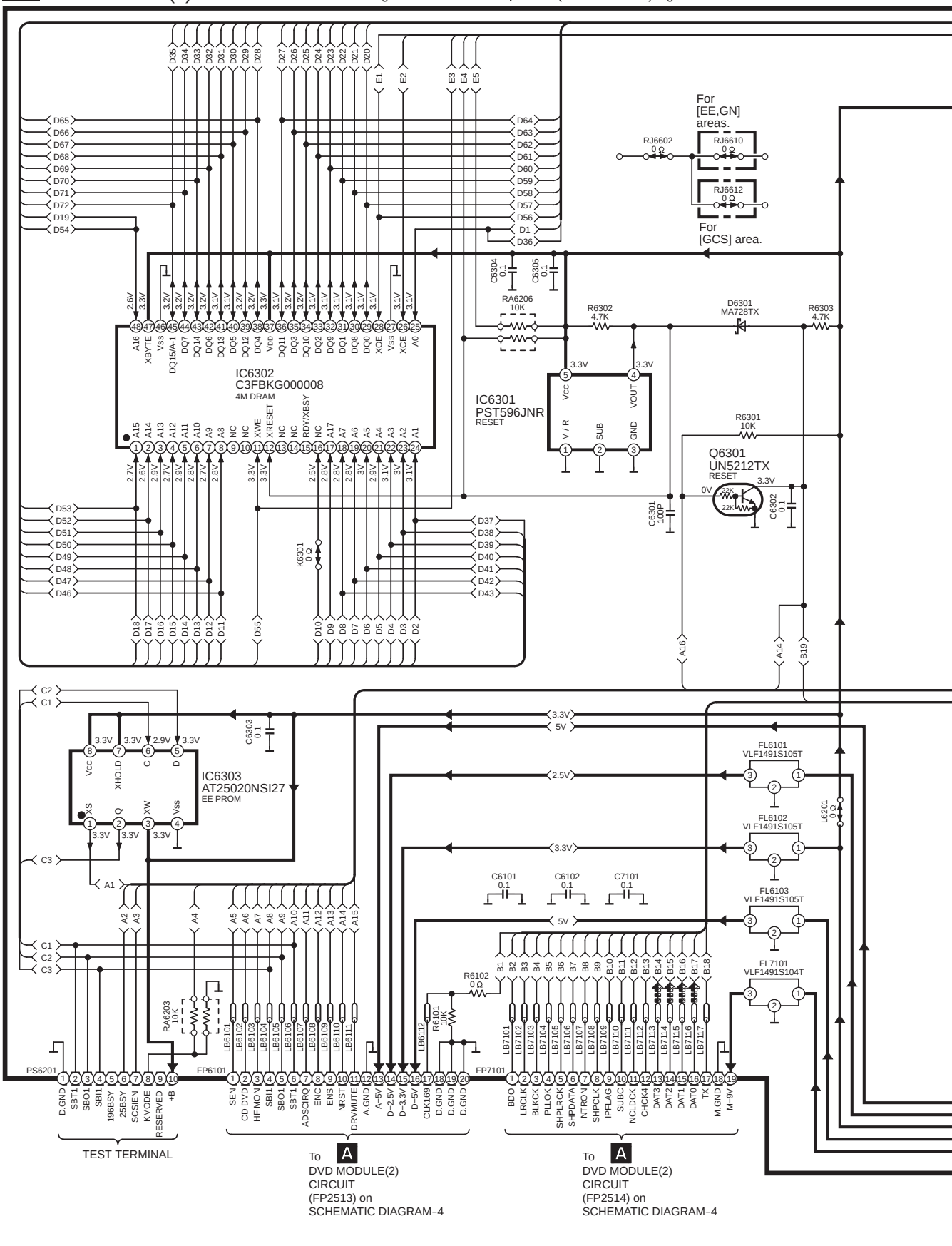


SCHEMATIC DIAGRAM-5

B DVD MODULE(1) CIRCUIT

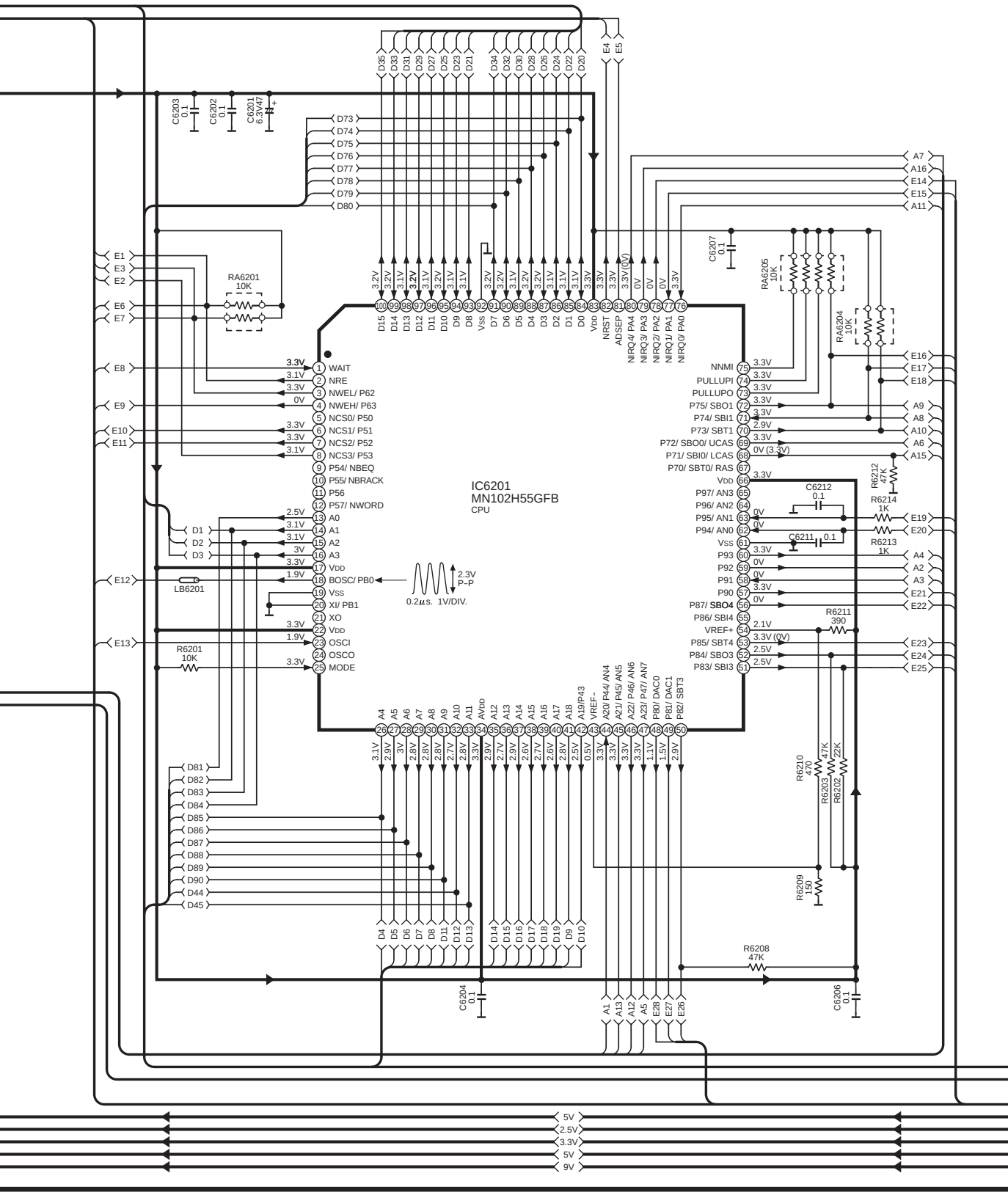
: +B Signal Line

: DVD (AUDIO / VIDEO) Signal Line



SCHEMATIC DIAGRAM-6

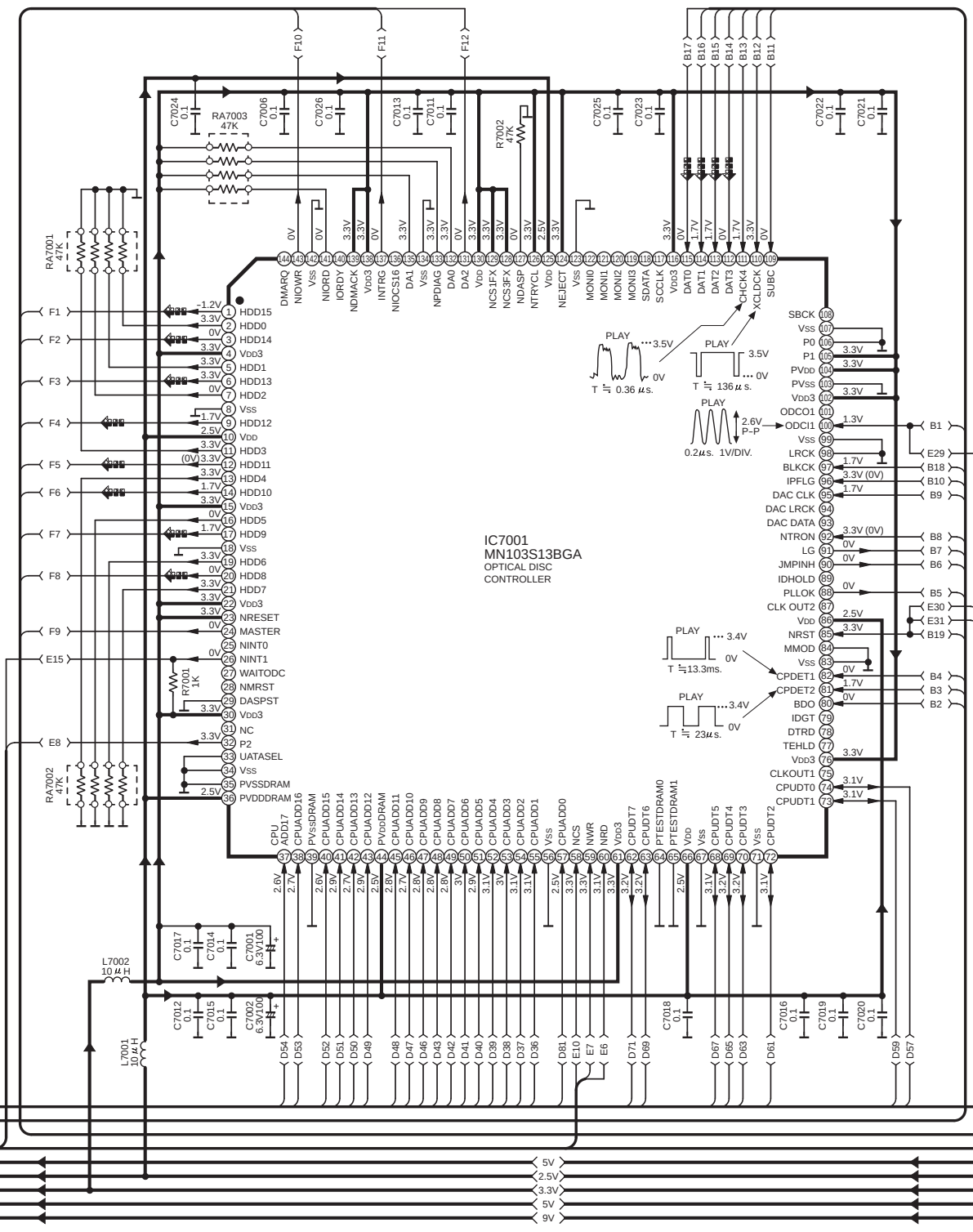
: +B Signal Line



B DVD MODULE(1) CIRCUIT

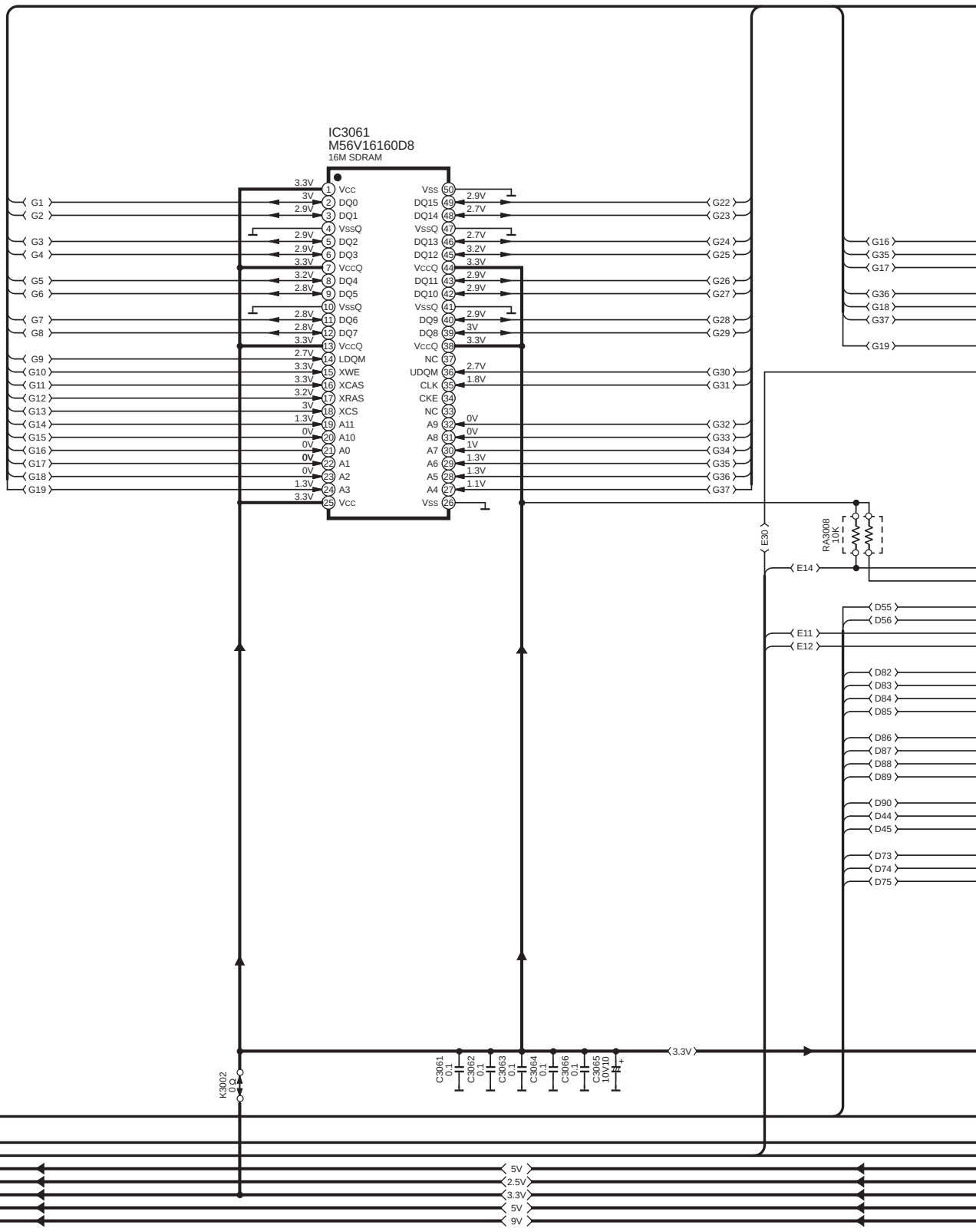
: +B Signal Line

: DVD (AUDIO / VIDEO) Signal Line



SCHEMATIC DIAGRAM-8

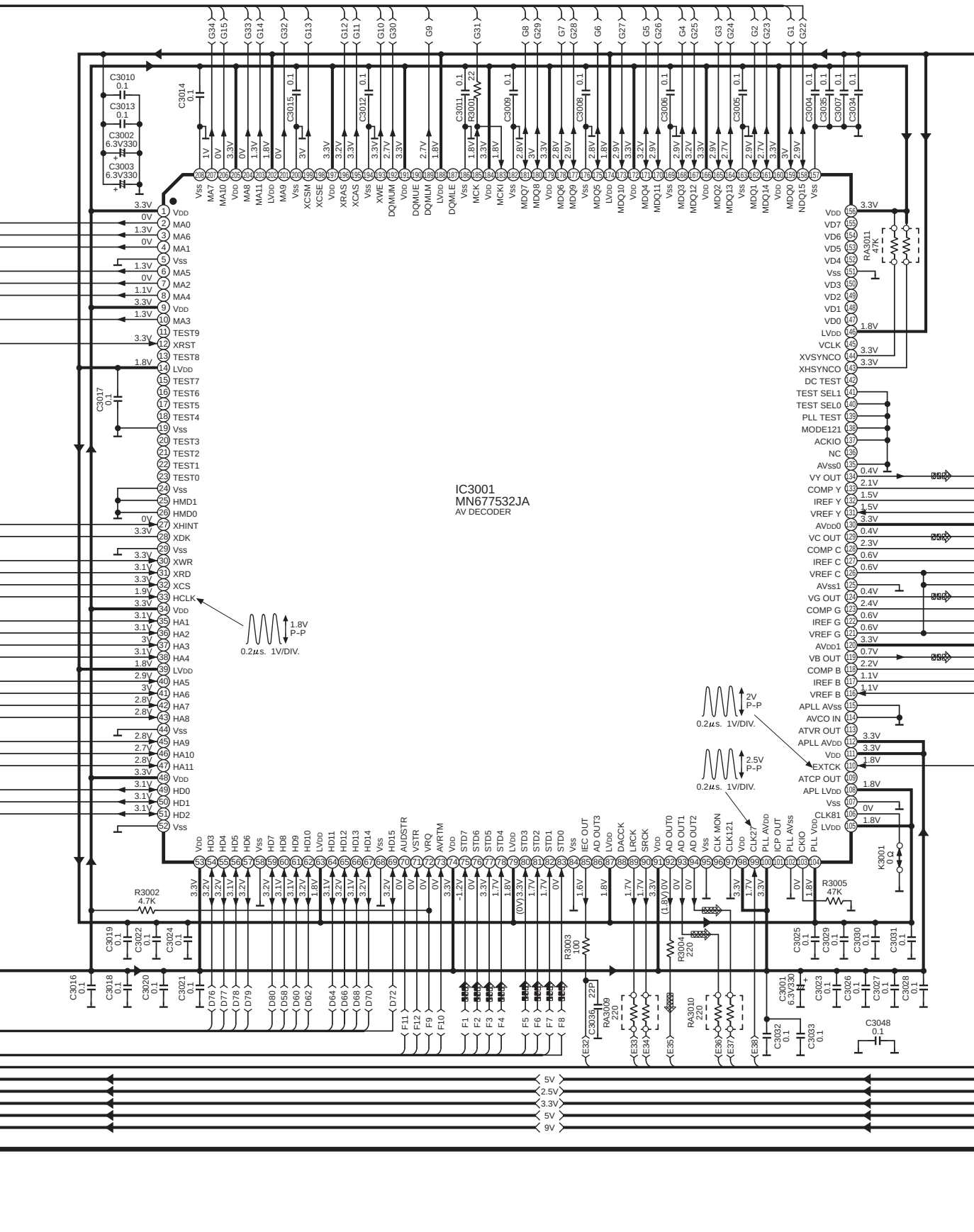
: +B Signal Line



SCHEMATIC DIAGRAM-9

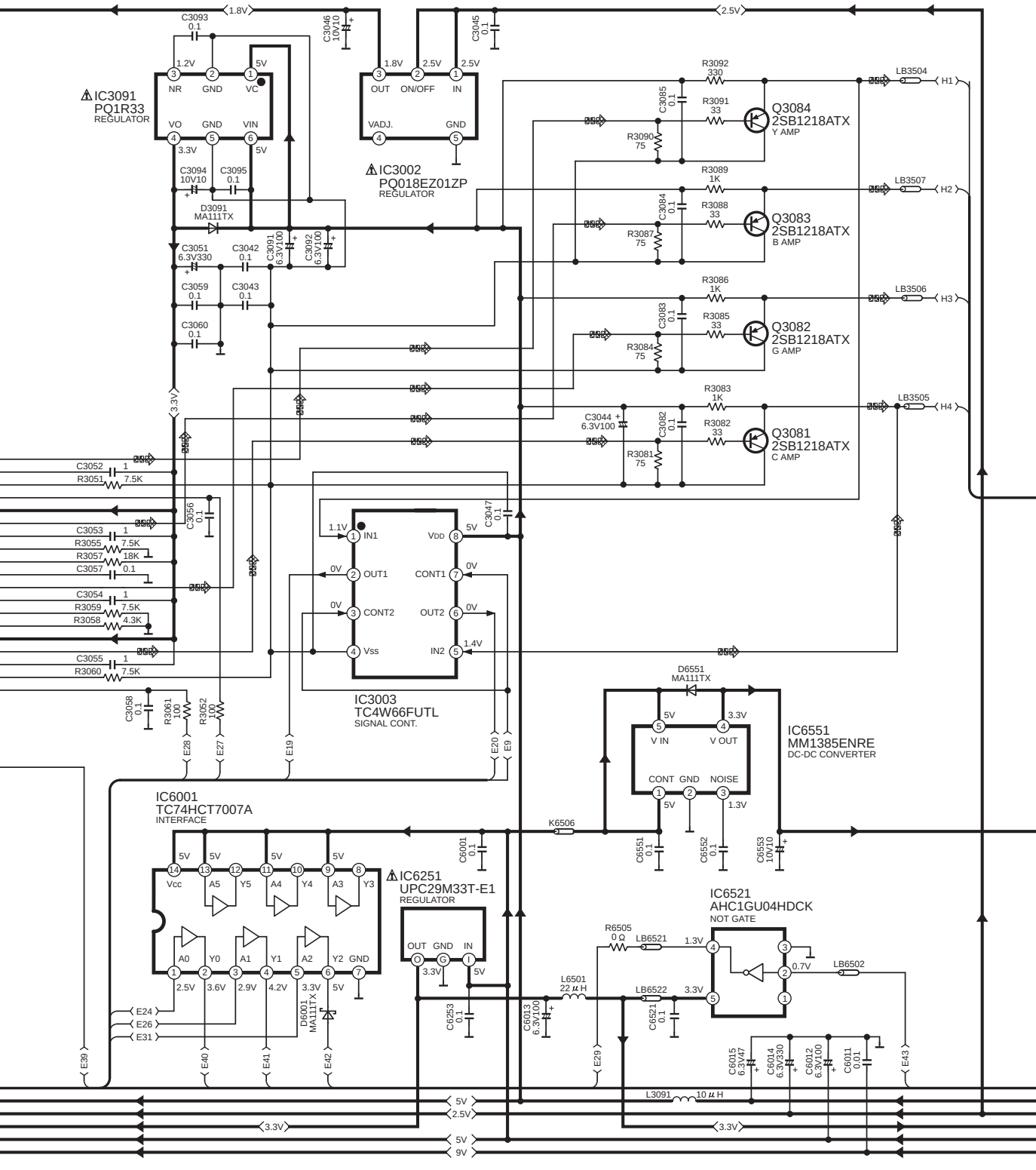
B DVD MODULE(1) CIRCUIT

: +B Signal Line
: DVD (AUDIO / VIDEO) Signal Line
: DVD VIDEO Signal Line
: CD/DVD AUDIO Signal Line



SCHEMATIC DIAGRAM–10

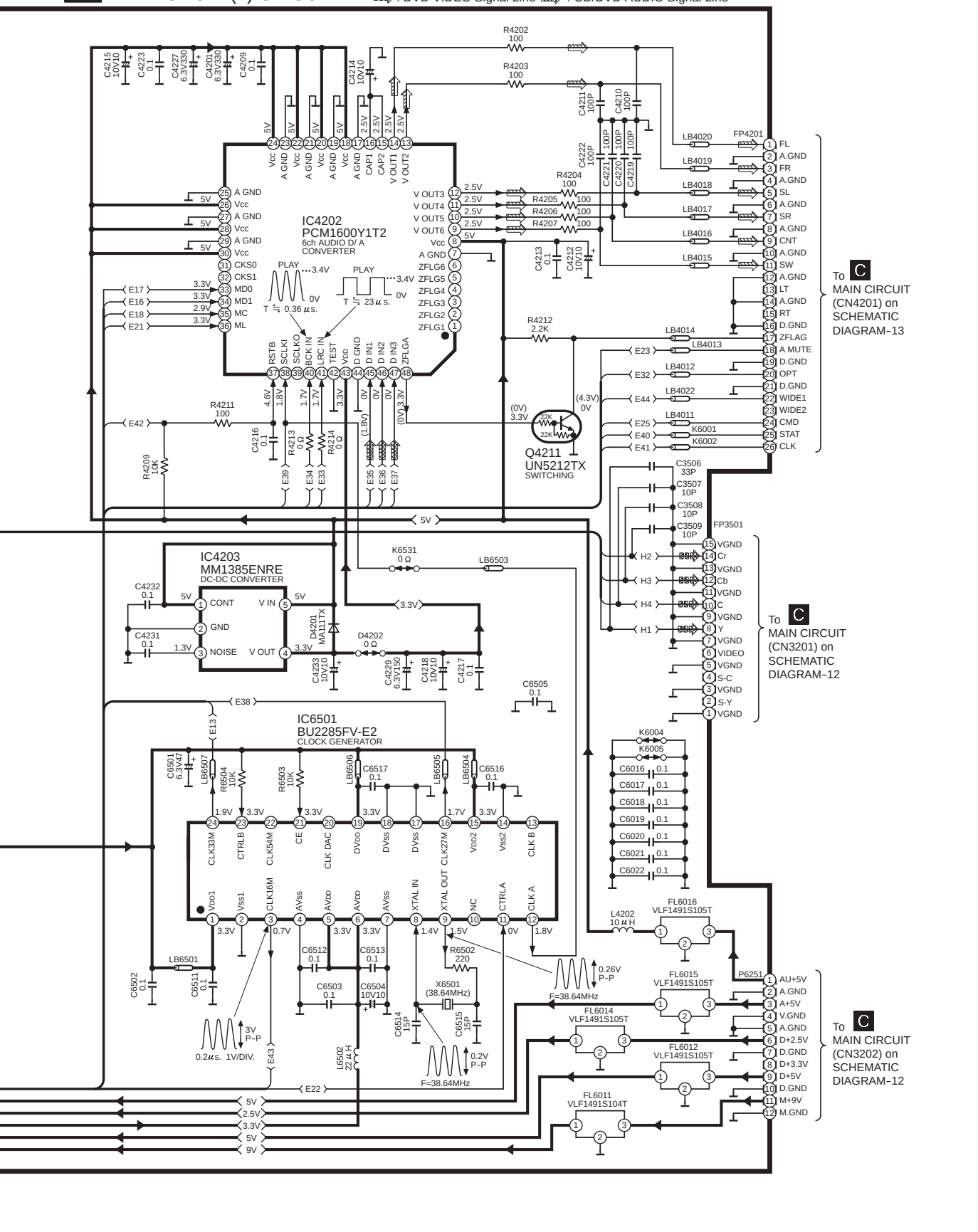
: +B Signal Line : DVD VIDEO Signal Line



SCHEMATIC DIAGRAM-11

B DVD MODULE(1) CIRCUIT

: +B Signal Line
: DVD VIDEO Signal Line
: Main Signal Line
: CD/DVD AUDIO Signal Line

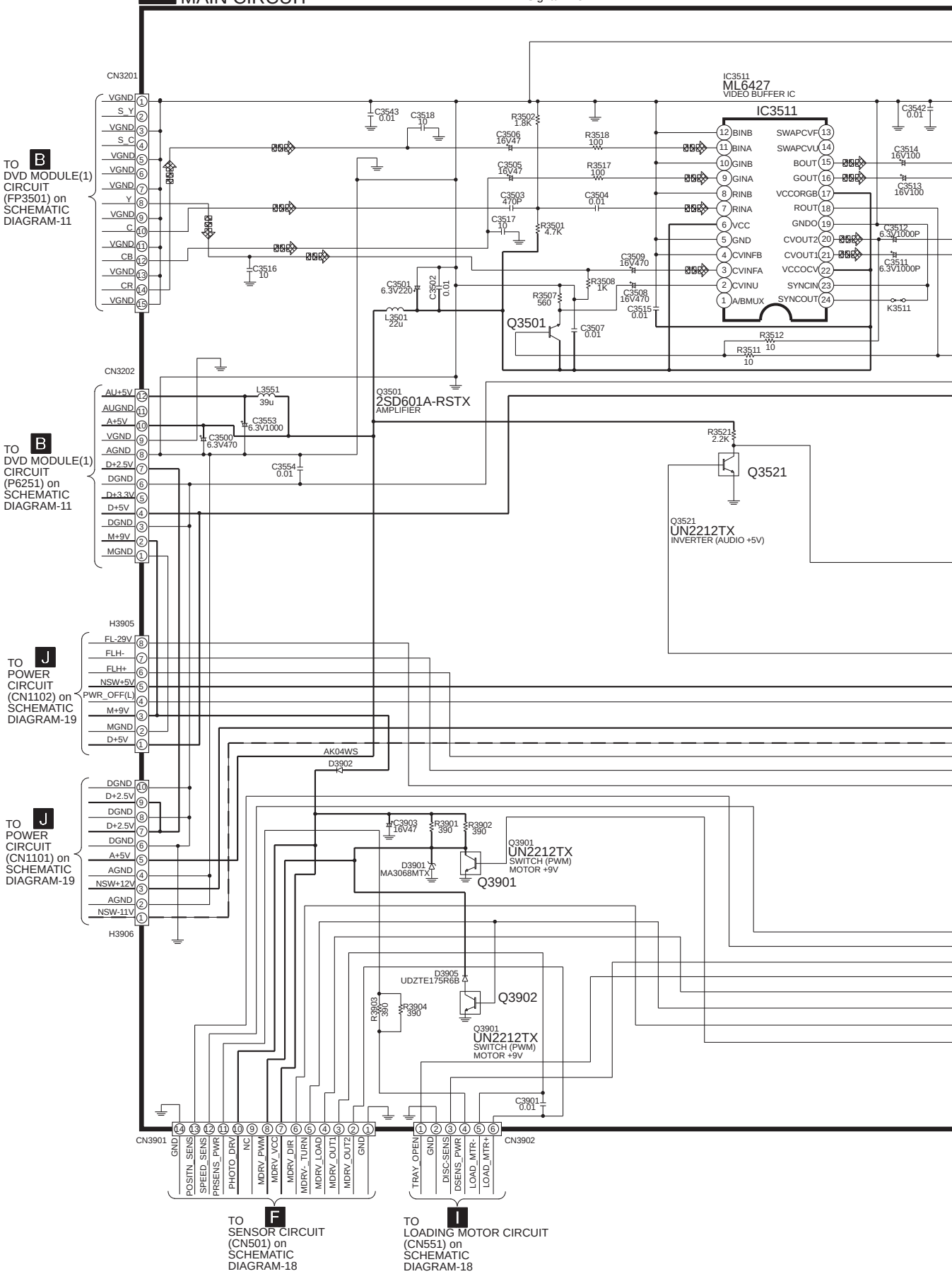


SCHEMATIC DIAGRAM-12

C MAIN CIRCUIT

: +B Signal Line : DVD VIDEO Signal line

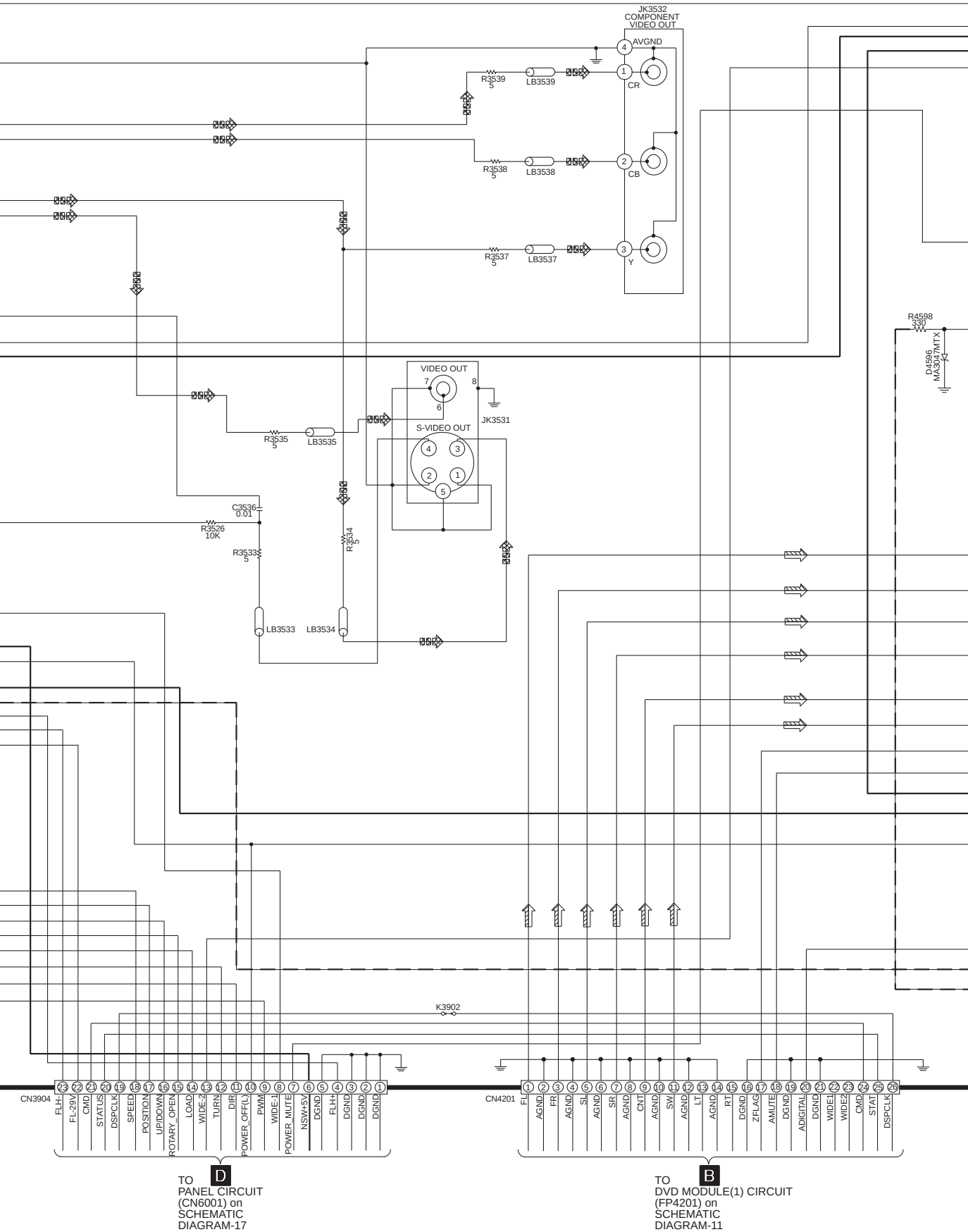
: -B Signal Line



SCHEMATIC DIAGRAM-13

: +B Signal Line : DVD VIDEO Signal line

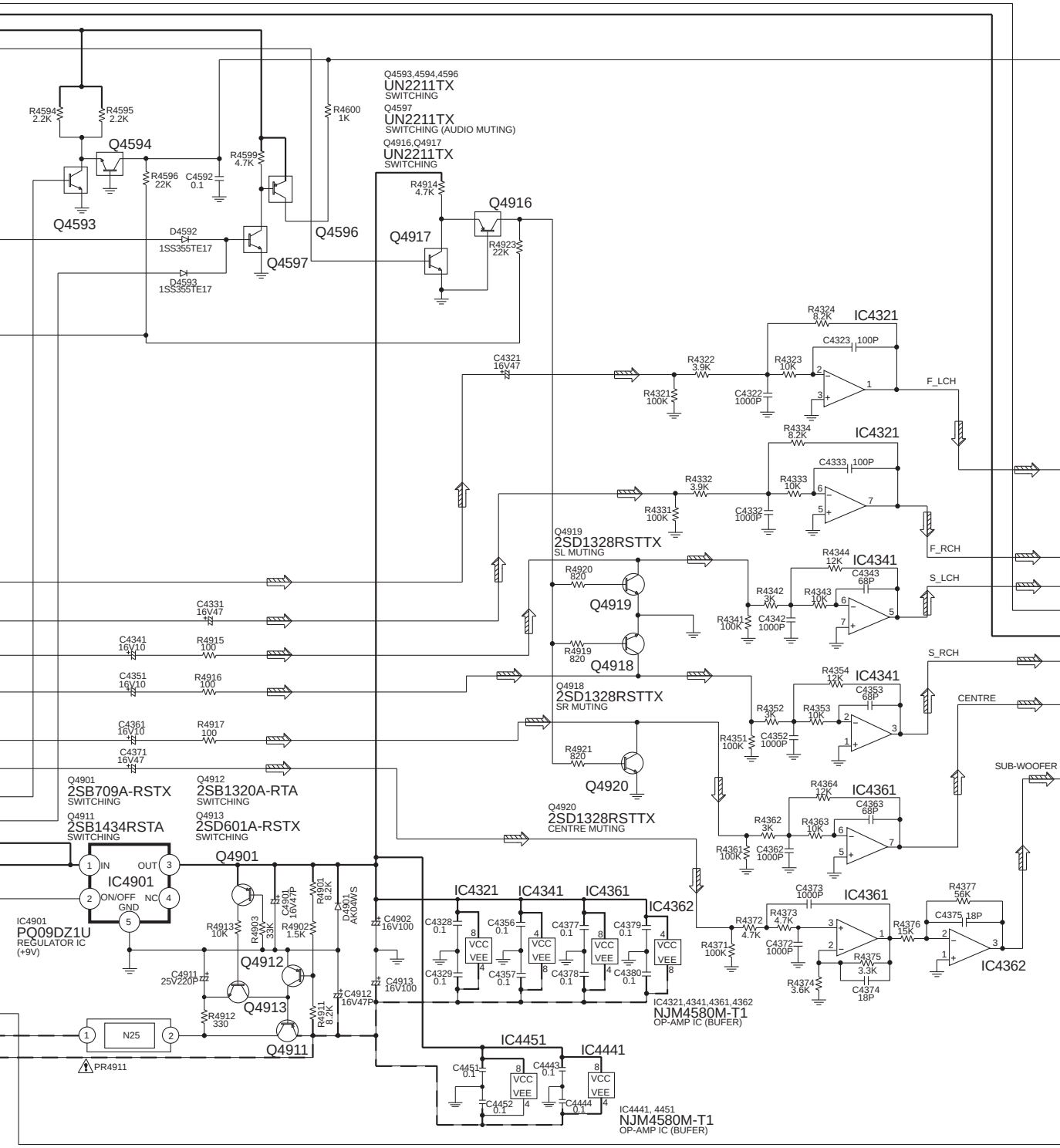
: -B Signal Line : Main Signal line



SCHEMATIC DIAGRAM-14

: +B Signal Line

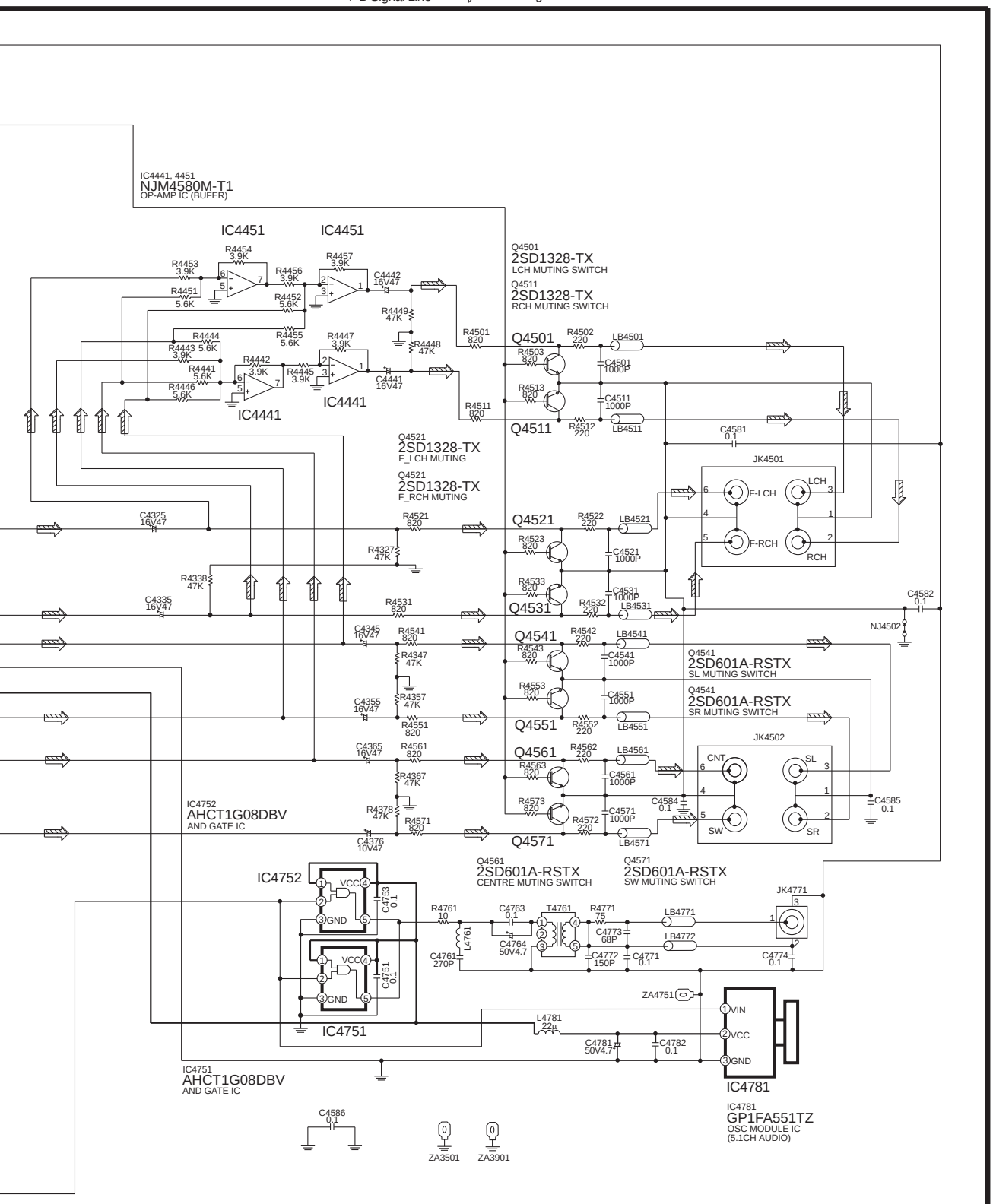
: -B Signal Line : Main Signal line



SCHEMATIC DIAGRAM-15

: +B Signal Line

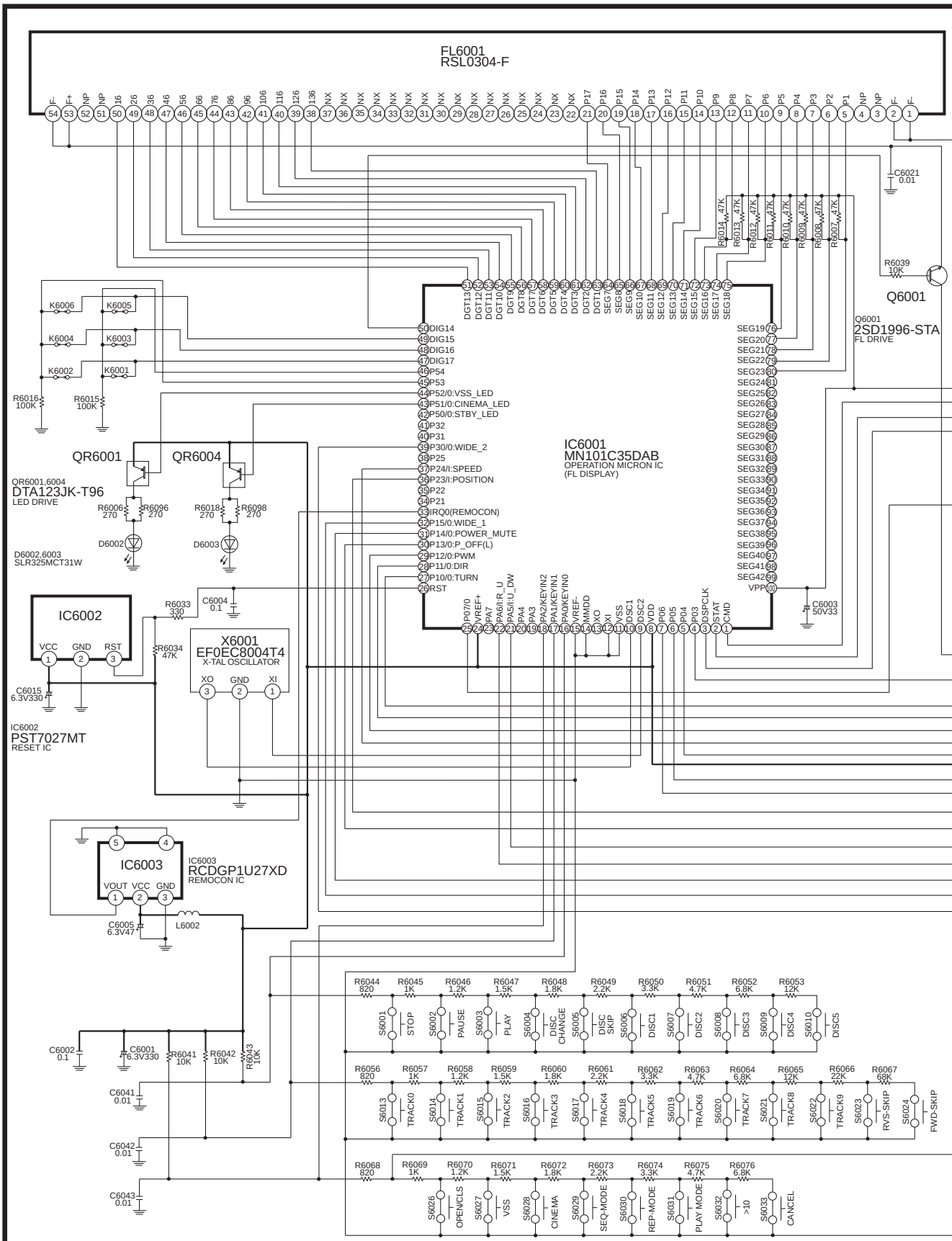
: -B Signal Line : Main Signal line



SCHEMATIC DIAGRAM-16

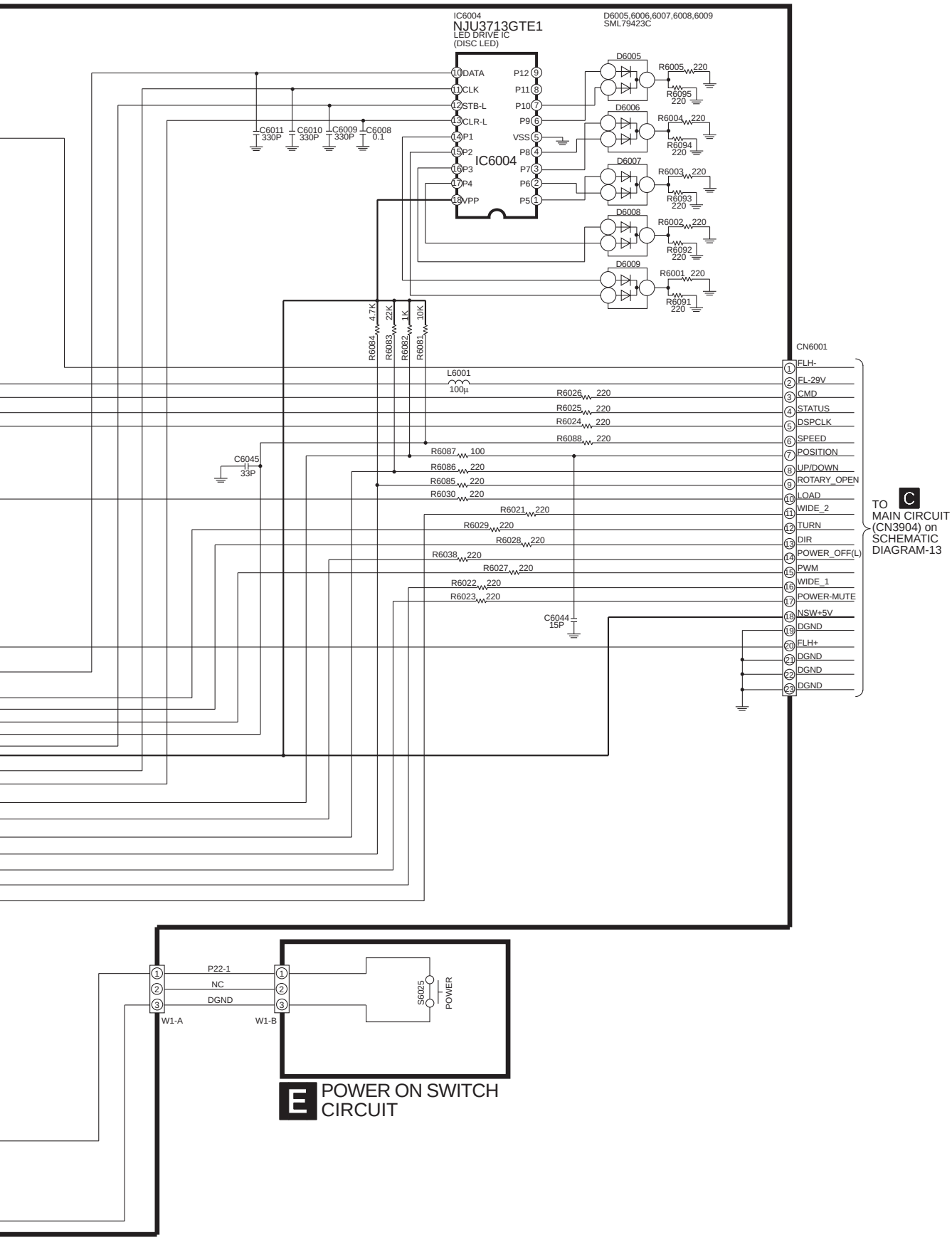
D PANEL CIRCUIT

: +B Signal Line



SCHEMATIC DIAGRAM-17

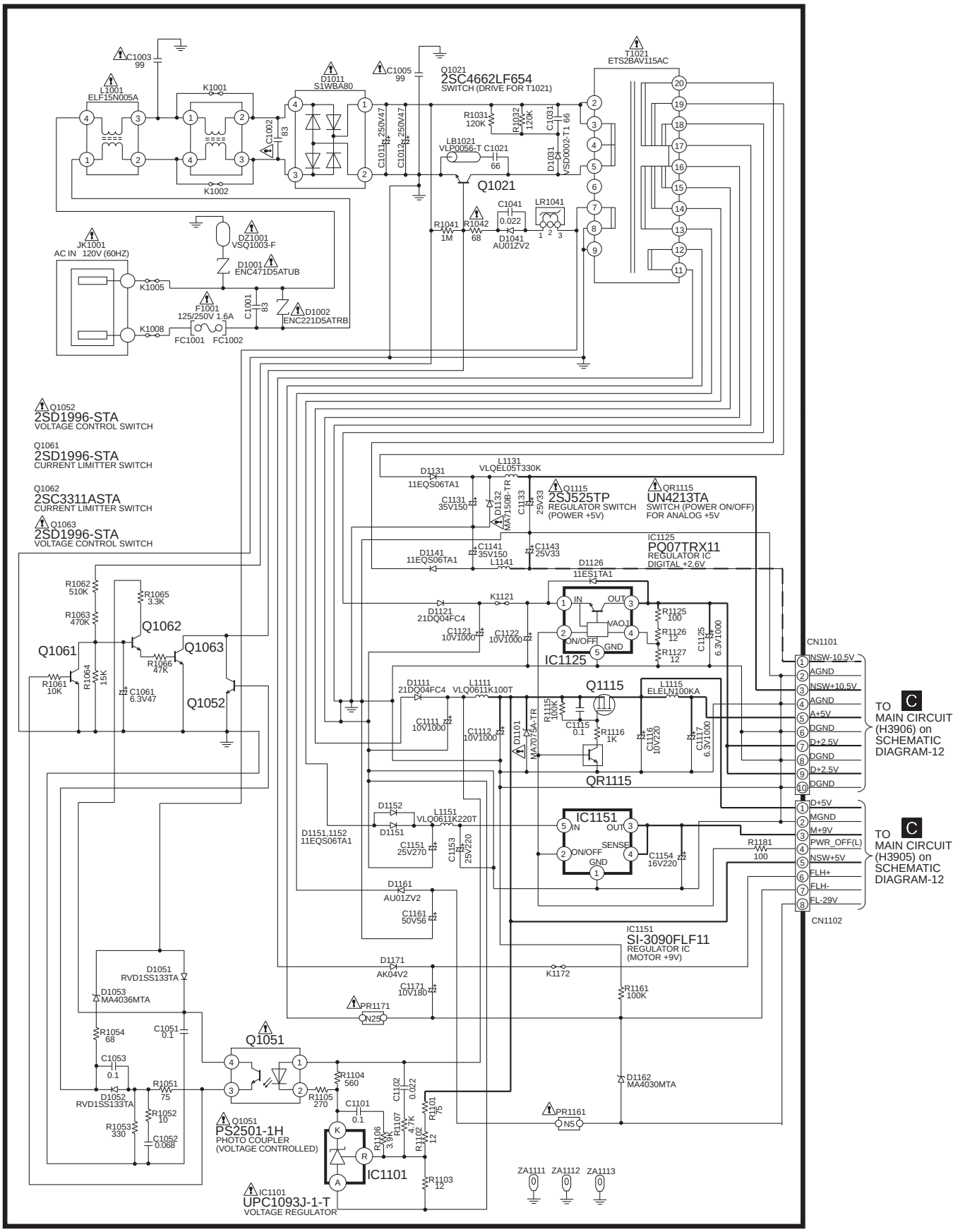
: +B Signal Line

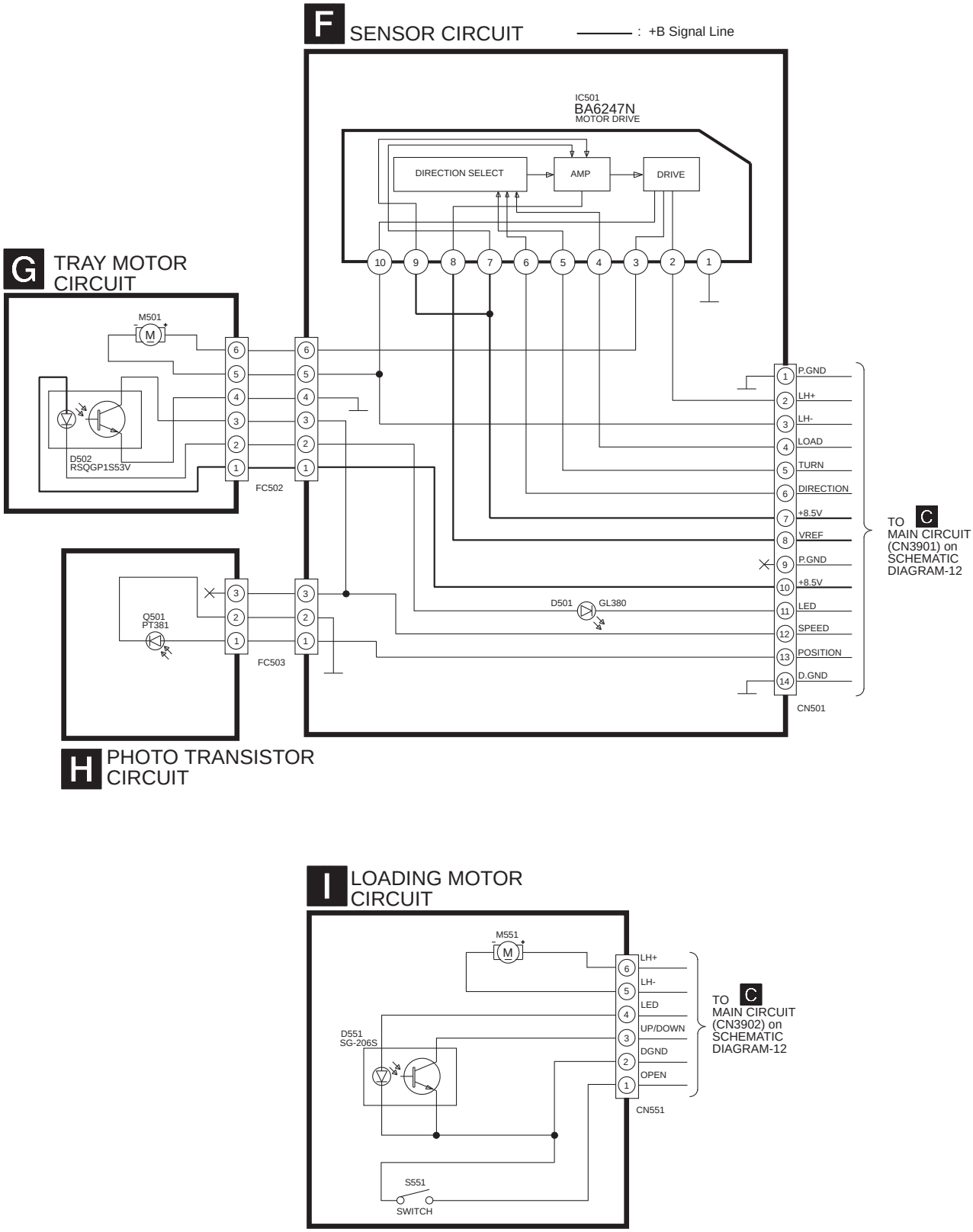


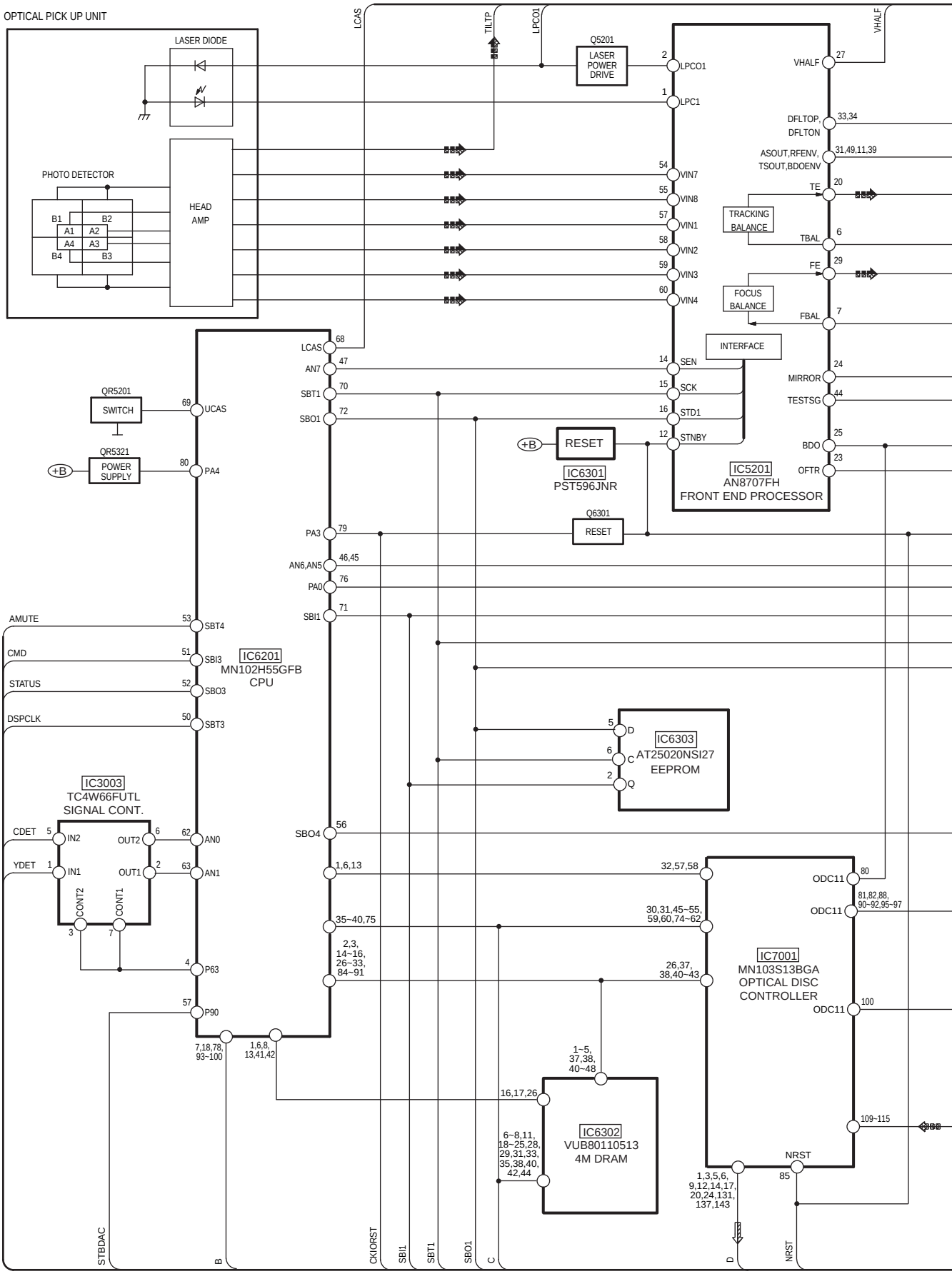
SCHEMATIC DIAGRAM-19

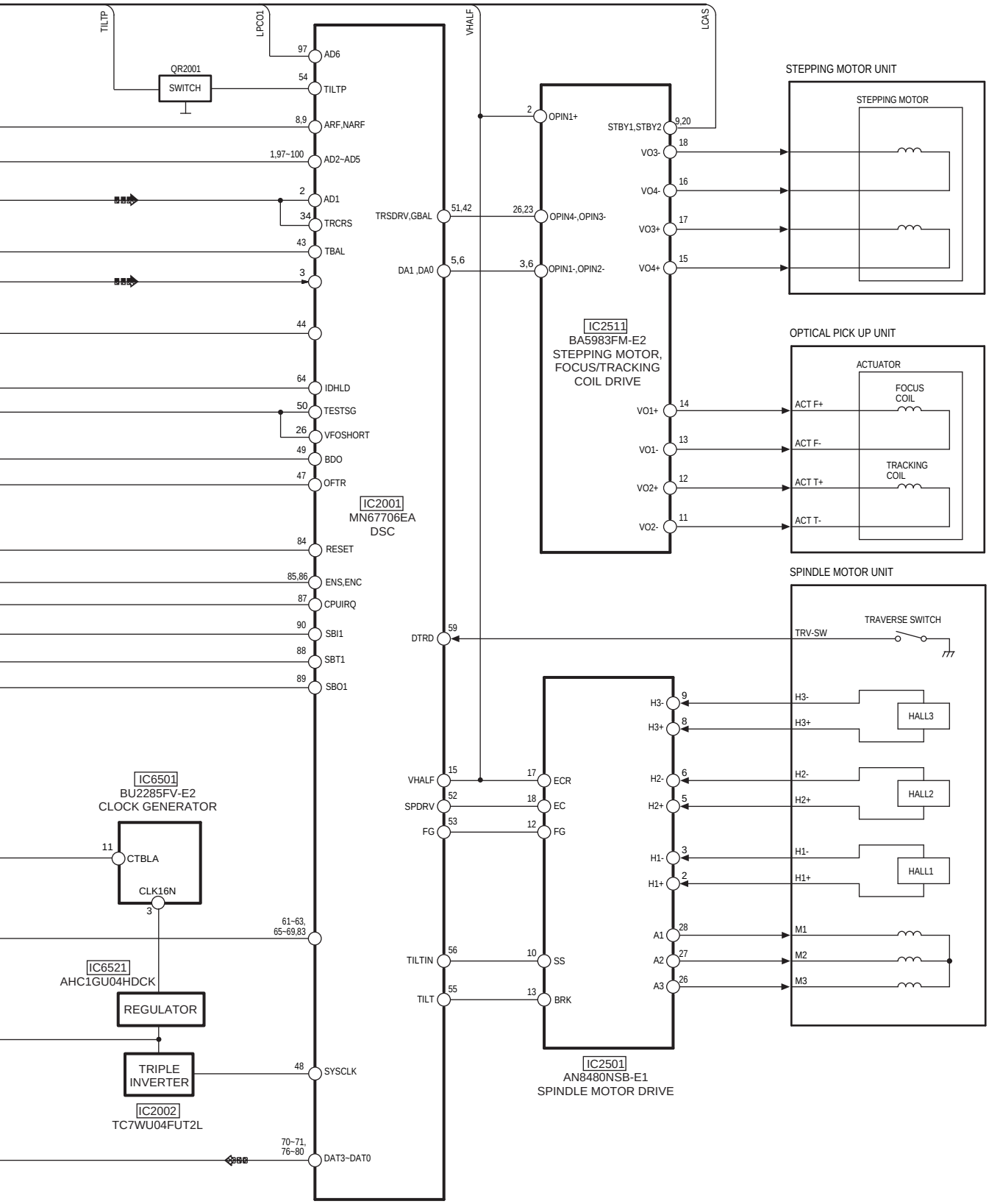
J POWER CIRCUIT

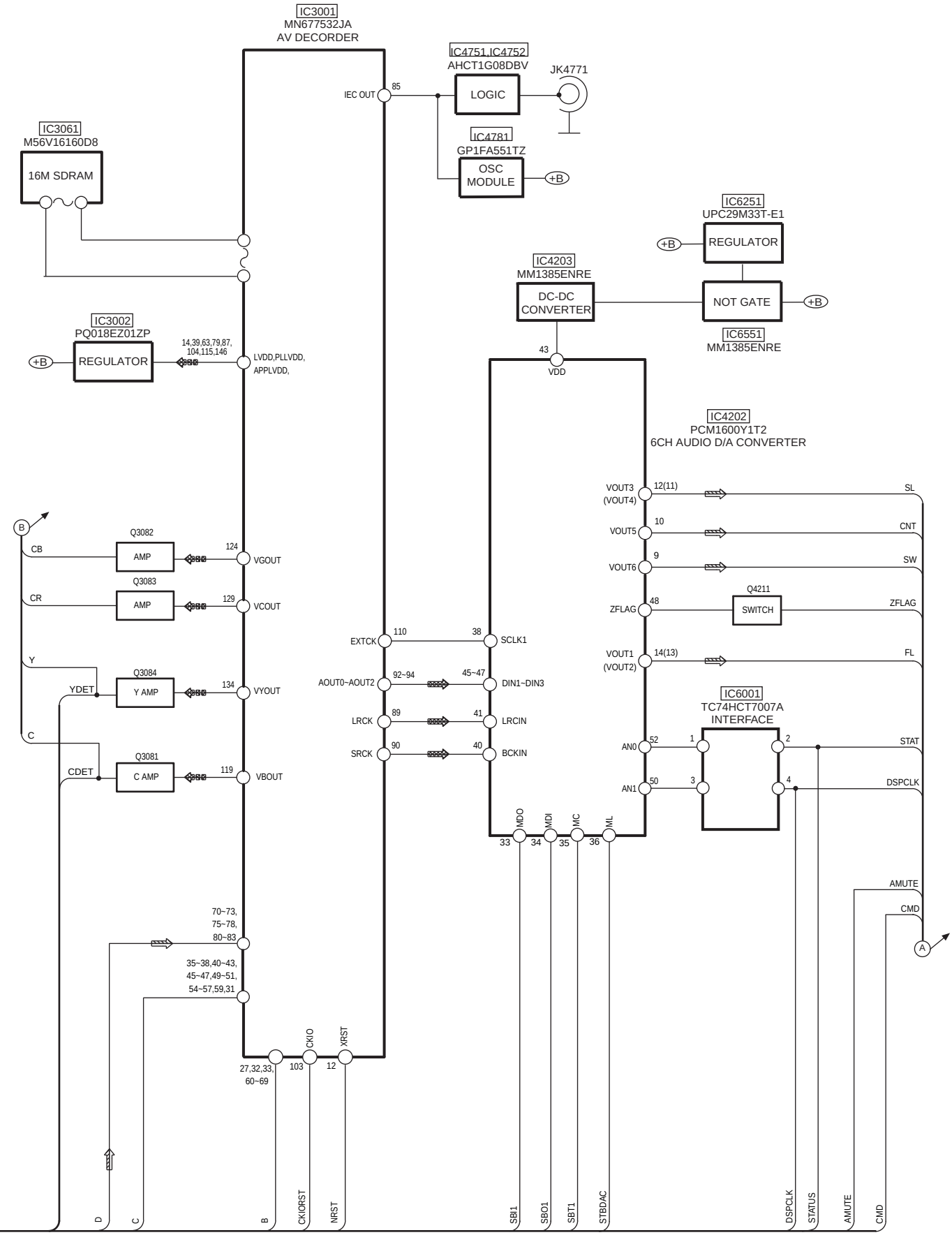
———: +B Signal Line — — —: -B Signal Line

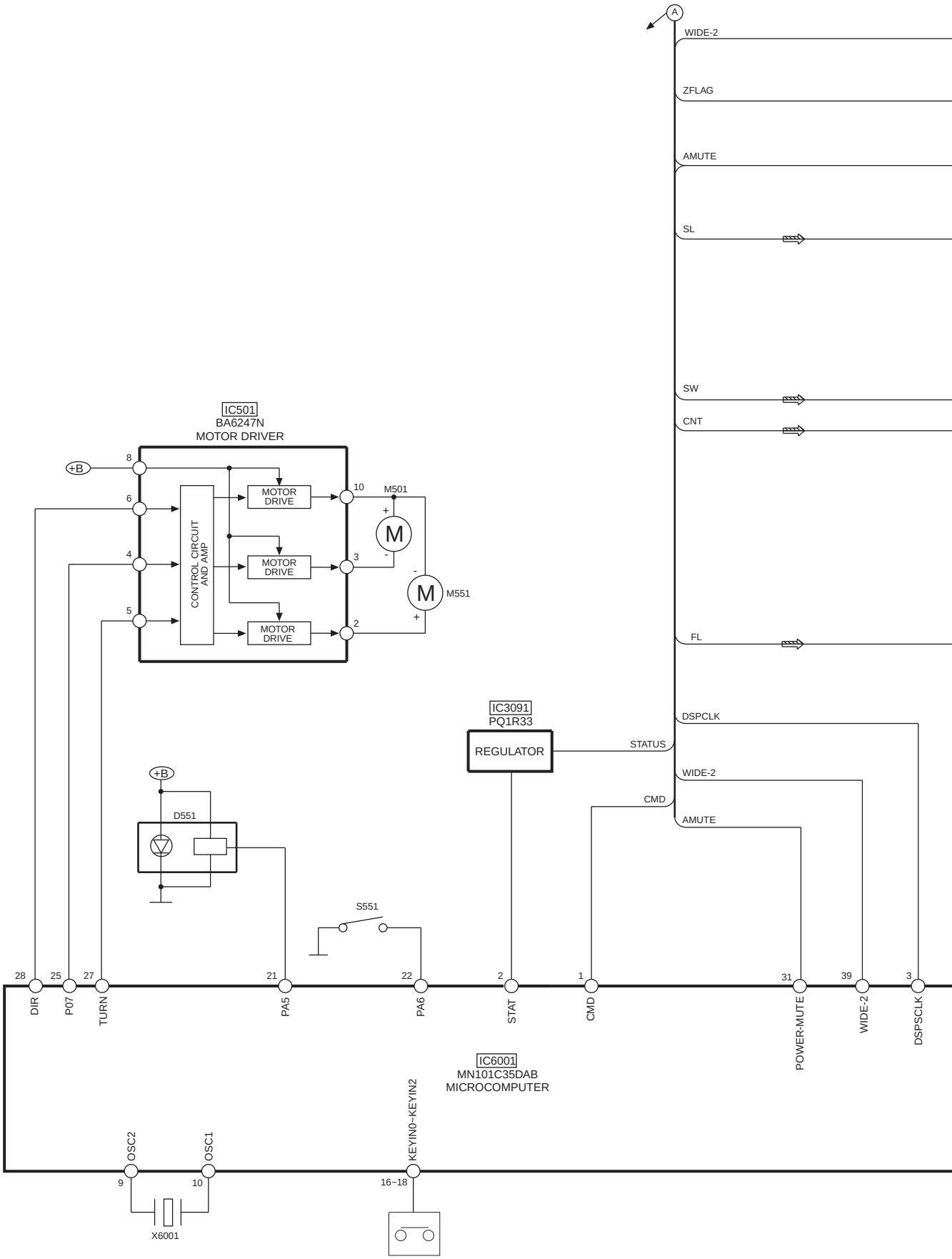


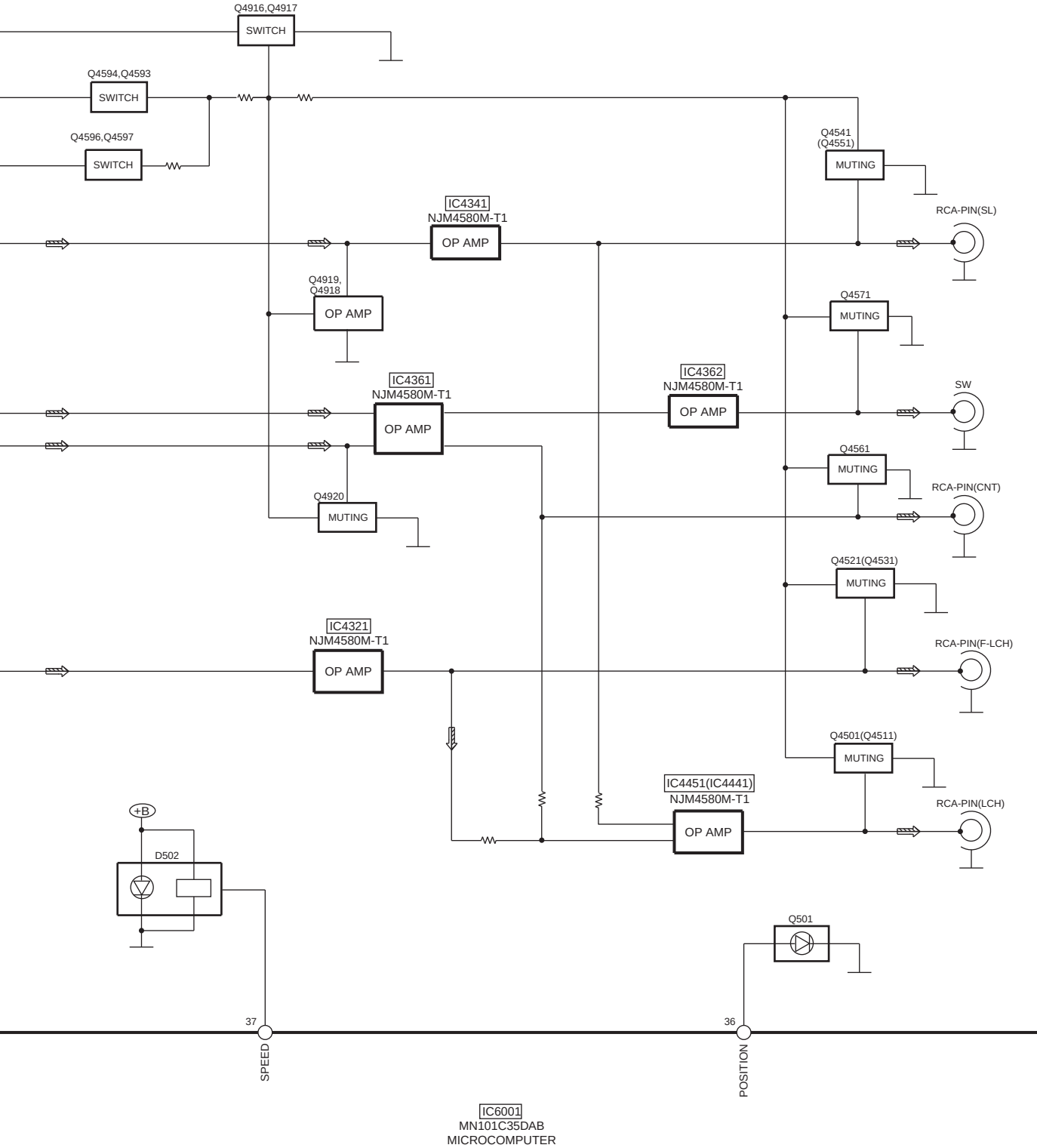

F SENSOR CIRCUIT
: +B Signal Line
IC501
BA6247N
MOTOR DRIVE
DIRECTION SELECT
AMP
DRIVE
10 9 8 7 6 5 4 3 2 1
G TRAY MOTOR CIRCUIT
M501
D502
RSQGP1S53V
FC502
H PHOTO TRANSISTOR CIRCUIT
Q501
PT381
FC503
D501
GL380
1 P.GND
2 LH+
3 LH-
4 LOAD
5 TURN
6 DIRECTION
7 +8.5V
8 VREF
9 P.GND
10 +8.5V
11 LED
12 SPEED
13 POSITION
14 D.GND
CN501
TO C MAIN CIRCUIT (CN3901) on SCHEMATIC DIAGRAM-12
I LOADING MOTOR CIRCUIT
M551
D551
SG-206S
S551
SWITCH
6 LH+
5 LH-
4 LED
3 UP/DOWN
2 DGND
1 OPEN
CN551
TO C MAIN CIRCUIT (CN3902) on SCHEMATIC DIAGRAM-12

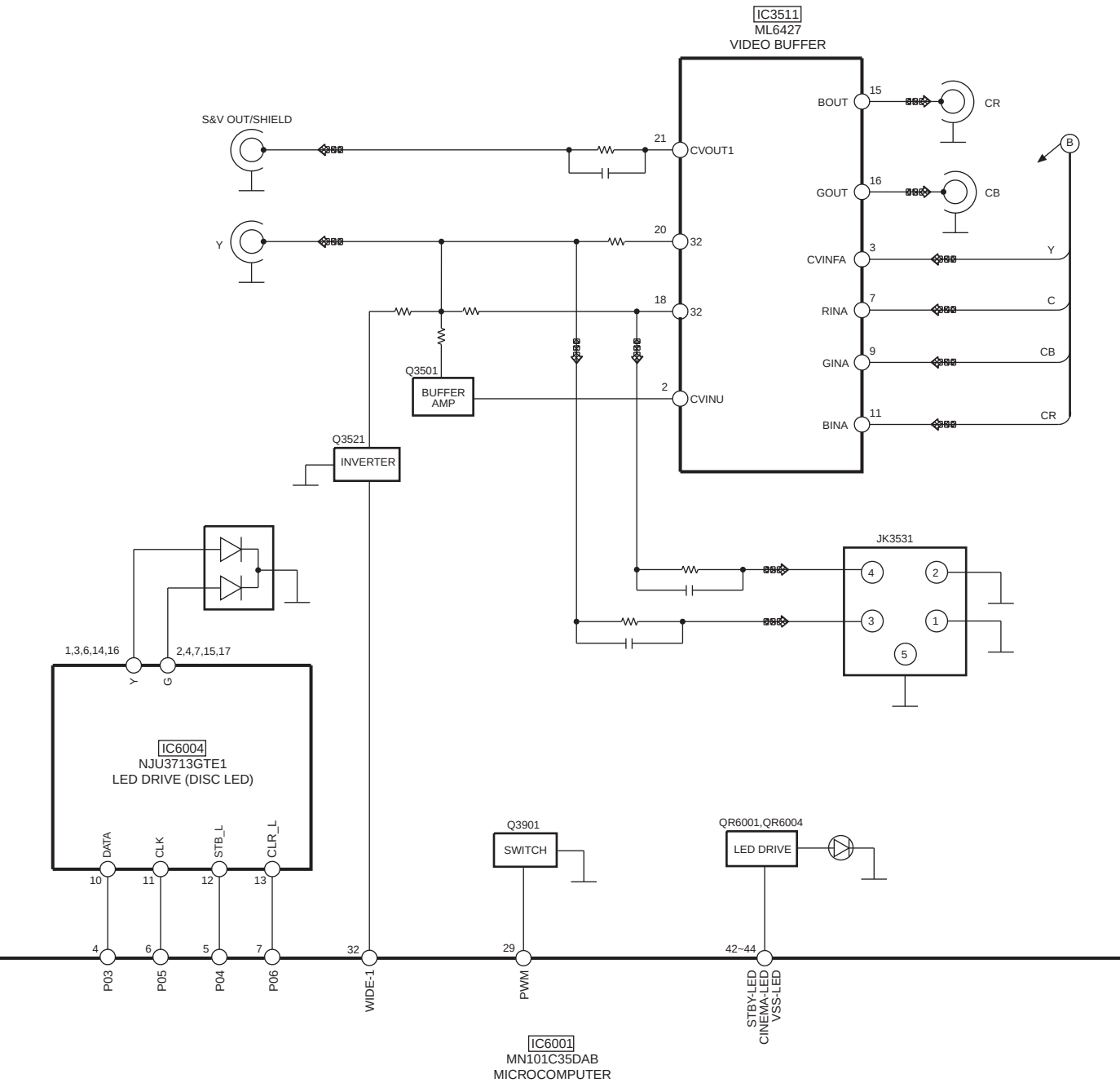

OPTICAL PICK UP UNIT
LASER DIODE
PHOTO DETECTOR
B1
B2
A1
A2
A4
A3
B4
B3
HEAD AMP
LCAS
TILTP
LPCO1
Q5201
LASER POWER DRIVE
2 LPCO1
1 LPC1
54 VIN7
55 VIN8
57 VIN1
58 VIN2
59 VIN3
60 VIN4
VHALF
27 VHALF
DFLTOP, DFLTON 33,34
ASOUT,RFENV, TSOUT,BDOENV 31,49,11,39
TE 20
TRACKING BALANCE
TBAL 6
FE 29
FOCUS BALANCE
FBAL 7
INTERFACE
14 SEN
15 SCK
16 STD1
12 STNBY
MIRROR 24
TESTSG 44
BDO 25
OFTR 23
IC5201
AN8707FH
FRONT END PROCESSOR
+B
RESET
IC6301
PST596JNR
Q6301
RESET
QR5201
SWITCH
69 UCAS
QR5321
POWER SUPPLY
80 PA4
LCAS 68
AN7 47
SBT1 70
SBO1 72
PA3 79
AN6,AN5 46,45
PA0 76
SBI1 71
AMUTE 53 SBT4
CMD 51 SBI3
STATUS 52 SBO3
DSPCLK 50 SBT3
IC6201
MN102H55GFB
CPU
IC6303
AT25020NSI27
EEPROM
5 D
6 C
2 Q
IC3003
TC4W66FUTL
SIGNAL CONT.
CDET 5 IN2
YDET 1 IN1
OUT2 6
OUT1 2
62 AN0
63 AN1
CONT2 3
CONT1 7
4 P63
57 P90
SBO4 56
1,6,13
35~40,75
2,3, 14~16, 26~33, 84~91
32,57,58
30,31,45~55, 59,60,74~62
26,37, 38,40~43
IC7001
MN103S13BGA
OPTICAL DISC
CONTROLLER
ODC11 80
ODC11 81,82,88, 90~92,95~97
ODC11 100
109~115
NRST 85
1,3,5,6, 9,12,14,17, 20,24,131, 137,143
7,18,78, 93~100
1,6,8, 13,41,42
1~5, 37,38, 40~48
16,17,26
6~8,11, 18~25,28, 29,31,33, 35,38,40, 42,44
IC6302
VUB80110513
4M DRAM
STBDAC
B
CKIORST
SBI1
SBT1
SBO1
C
D
NRST

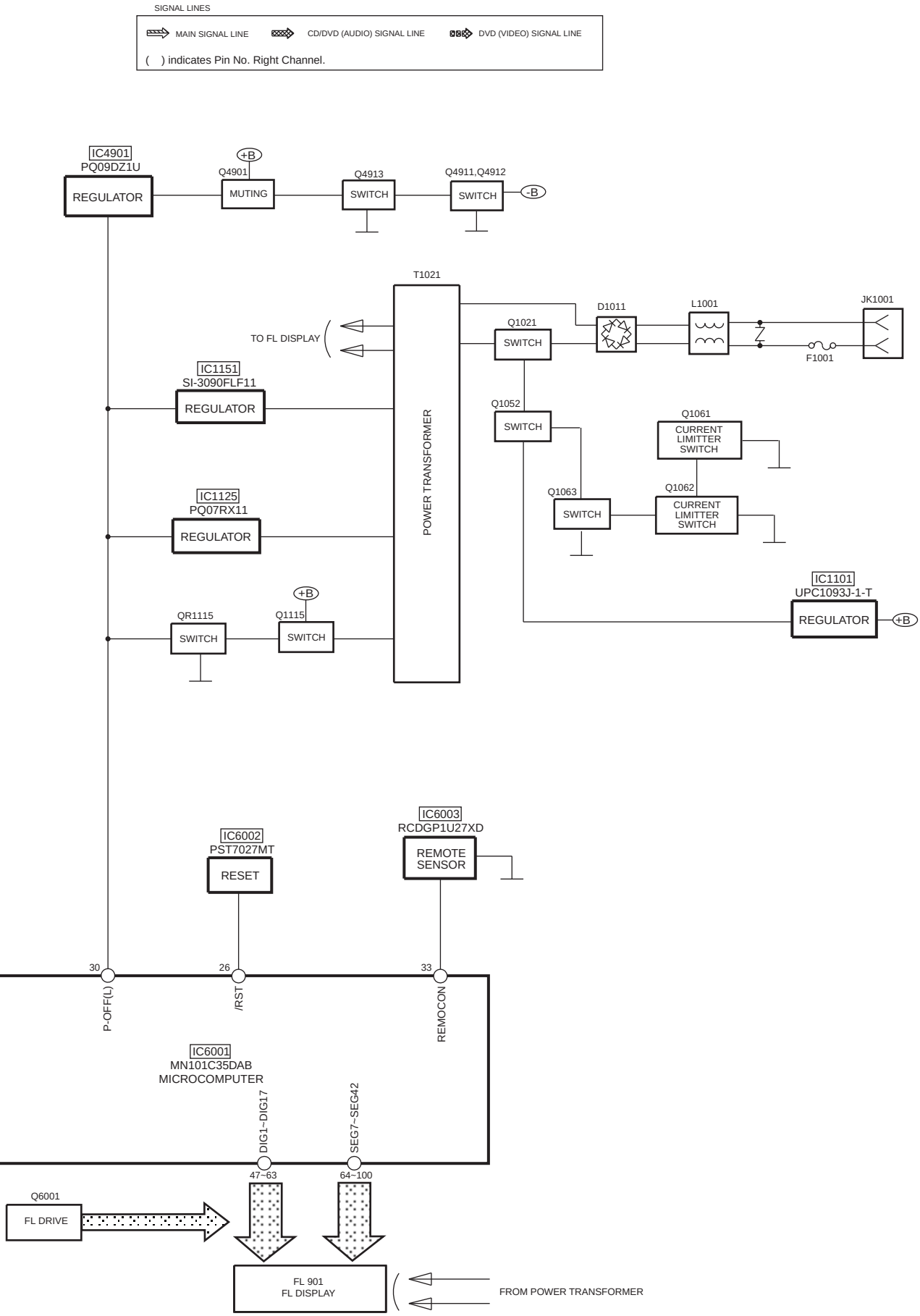

TILTP
LPCO1
VHALF
LCAS
QR2001
SWITCH
97 AD6
54 TILTP
8,9 ARF,NARF
1,97~100 AD2~AD5
2 AD1
34 TRCRS
43 TBAL
3
44
64 IDHLD
50 TESTSG
26 VFOSHORT
49 BDO
47 OFTR
84 RESET
85,86 ENS,ENC
87 CPUIRQ
90 SBI1
88 SBT1
89 SBO1
IC2001
MN67706EA
DSC
IC6501
BU2285FV-E2
CLOCK GENERATOR
11 CTBLA
CLK16N
3
61~63, 65~69,83
IC6521
AHC1GU04HDCK
REGULATOR
TRIPLE INVERTER
48 SYSCLK
IC2002
TC7WU04FUT2L
70~71, 76~80 DAT3~DAT0
TRSDRV,GBAL 51,42
DA1 ,DA0 5,6
2 OPIN1+
26,23 OPIN4-,OPIN3-
3,6 OPIN1-,OPIN2-
STBY1,STBY2 9,20
VO3- 18
VO4- 16
VO3+ 17
VO4+ 15
IC2511
BA5983FM-E2
STEPPING MOTOR,
FOCUS/TRACKING
COIL DRIVE
VO1+ 14
VO1- 13
VO2+ 12
VO2- 11
STEPPING MOTOR UNIT
STEPPING MOTOR
OPTICAL PICK UP UNIT
ACTUATOR
FOCUS COIL
TRACKING COIL
ACT F+
ACT F-
ACT T+
ACT T-
SPINDLE MOTOR UNIT
TRAVERSE SWITCH
TRV-SW
DTRD 59
VHALF 15
SPDRV 52
FG 53
17 ECR
18 EC
12 FG
TILTIN 56
TILT 55
10 SS
13 BRK
H3- 9
H3+ 8
H2- 6
H2+ 5
H1- 3
H1+ 2
A1 28
A2 27
A3 26
HALL3
HALL2
HALL1
M1
M2
M3
IC2501
AN8480NSB-E1
SPINDLE MOTOR DRIVE


IC3001
MN677532JA
AV DECORDER
IC4751,IC4752
AHCT1G08DBV
LOGIC
JK4771
IEC OUT
85
IC4781
GP1FA551TZ
OSC MODULE
+B
IC3061
M56V16160D8
16M SDRAM
IC6251
UPC29M33T-E1
REGULATOR
IC4203
MM1385ENRE
DC-DC CONVERTER
NOT GATE
IC6551
MM1385ENRE
IC3002
PQ018EZ01ZP
REGULATOR
14,39,63,79,87,
104,115,146
LVDD,PLLVDD,
APPLVDD,
43
VDD
IC4202
PCM1600Y1T2
6CH AUDIO D/A CONVERTER
VOUT3
(VOUT4)
12(11)
SL
VOUT5
10
CNT
VOUT6
9
SW
ZFLAG
48
Q4211
SWITCH
ZFLAG
VOUT1
(VOUT2)
14(13)
FL
IC6001
TC74HCT7007A
INTERFACE
AN0
52
STAT
AN1
50
DSPCLK
B
CB
Q3082
AMP
124
VGOUT
CR
Q3083
AMP
129
VCOUT
Y
YDET
Q3084
Y AMP
134
VYOUT
C
CDET
Q3081
C AMP
119
VBOUT
EXTCK
110
38
SCLK1
AOUT0~AOUT2
92~94
45~47
DIN1~DIN3
LRCK
89
41
LRCIN
SRCK
90
40
BCKIN
MDO
MDI
MC
ML
33
34
35
36
AMUTE
CMD
A
70~73,
75~78,
80~83
35~38,40~43,
45~47,49~51,
54~57,59,31
27,32,33,
60~69
CKIO
103
XRST
12
D
C
B
CKIORST
NRST
SBI1
SBO1
SBT1
STBDAC
DSPCLK
STATUS
AMUTE
CMD

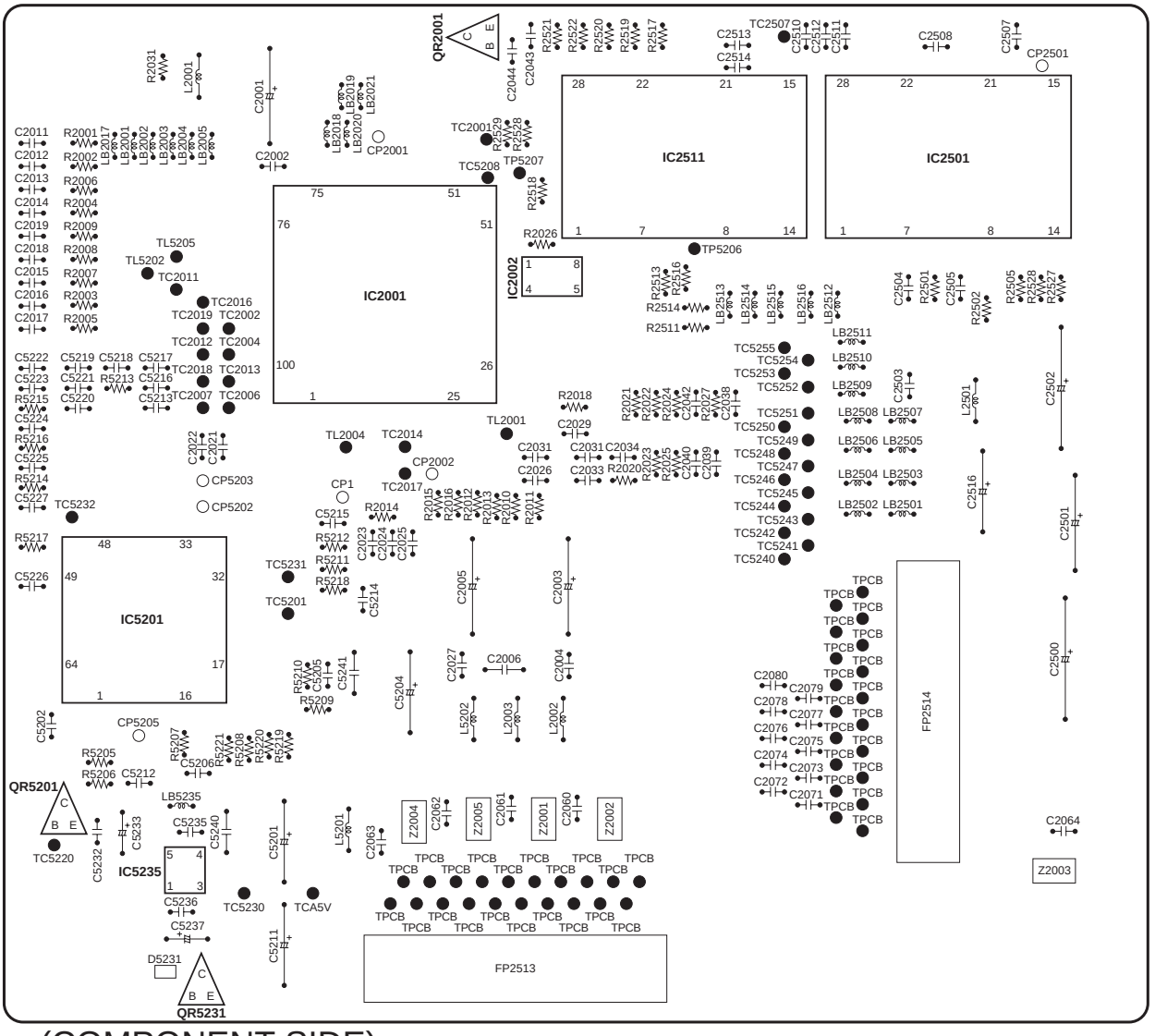

A
WIDE-2
ZFLAG
AMUTE
SL
SW
CNT
FL
DSPCLK
WIDE-2
AMUTE
IC501
BA6247N
MOTOR DRIVER
+B
8
6
4
5
CONTROL CIRCUIT AND AMP
MOTOR DRIVE
MOTOR DRIVE
MOTOR DRIVE
10
3
2
M501
M
M551
IC3091
PQ1R33
REGULATOR
STATUS
CMD
+B
D551
S551
28
25
27
21
22
2
1
31
39
3
DIR
P07
TURN
PA5
PA6
STAT
CMD
POWER-MUTE
WIDE-2
DSPSCLK
IC6001
MN101C35DAB
MICROCOMPUTER
OSC2
OSC1
KEYIN0~KEYIN2
9
10
16~18
X6001


Q4916,Q4917
SWITCH
Q4594,Q4593
SWITCH
Q4596,Q4597
SWITCH
Q4541
(Q4551)
MUTING
IC4341
NJM4580M-T1
OP AMP
RCA-PIN(SL)
Q4919,
Q4918
OP AMP
Q4571
MUTING
IC4361
NJM4580M-T1
OP AMP
IC4362
NJM4580M-T1
OP AMP
SW
Q4561
MUTING
Q4920
MUTING
RCA-PIN(CNT)
Q4521(Q4531)
MUTING
IC4321
NJM4580M-T1
OP AMP
RCA-PIN(F-LCH)
Q4501(Q4511)
MUTING
IC4451(IC4441)
NJM4580M-T1
OP AMP
RCA-PIN(LCH)
+B
D502
Q501
37
36
SPEED
POSITION
IC6001
MN101C35DAB
MICROCOMPUTER


IC3511
ML6427
VIDEO BUFFER
S&V OUT/SHIELD
Y
21
CVOUT1
20
32
18
32
2
CVINU
Q3501
BUFFER
AMP
Q3521
INVERTER
BOUT
15
CR
GOUT
16
CB
CVINFA
3
Y
RINA
7
C
GINA
9
CB
BINA
11
CR
B
JK3531
4
2
3
1
5
1,3,6,14,16
2,4,7,15,17
Y
G
IC6004
NJU3713GTE1
LED DRIVE (DISC LED)
DATA
CLK
STB_L
CLR_L
10
11
12
13
4
6
5
7
32
29
42~44
P03
P05
P04
P06
WIDE-1
PWM
STBY-LED
CINEMA-LED
VSS-LED
Q3901
SWITCH
QR6001,QR6004
LED DRIVE
IC6001
MN101C35DAB
MICROCOMPUTER

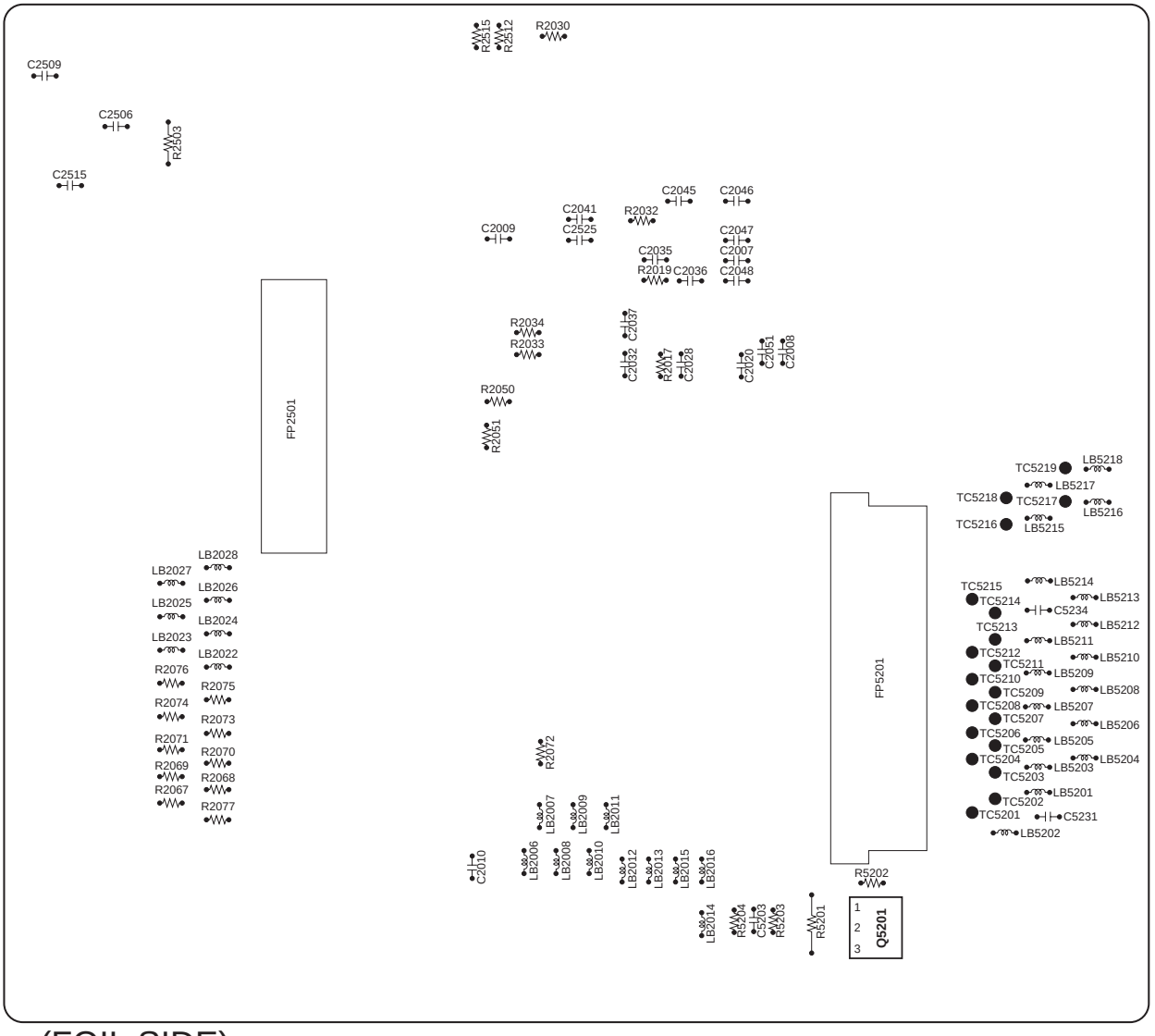

SIGNAL LINES
MAIN SIGNAL LINE
CD/DVD (AUDIO) SIGNAL LINE
DVD (VIDEO) SIGNAL LINE
( ) indicates Pin No. Right Channel.
IC4901
PQ09DZ1U
REGULATOR
+B
Q4901
MUTING
Q4913
SWITCH
Q4911,Q4912
SWITCH
-B
T1021
POWER TRANSFORMER
TO FL DISPLAY
Q1021
SWITCH
D1011
L1001
JK1001
F1001
IC1151
SI-3090FLF11
REGULATOR
Q1052
SWITCH
Q1061
CURRENT LIMITTER SWITCH
Q1063
SWITCH
Q1062
CURRENT LIMITTER SWITCH
IC1125
PQ07RX11
REGULATOR
IC1101
UPC1093J-1-T
REGULATOR
+B
QR1115
SWITCH
Q1115
SWITCH
+B
IC6002
PST7027MT
RESET
IC6003
RCDGP1U27XD
REMOTE SENSOR
30
26
33
P-OFF(L)
/RST
REMOCON
IC6001
MN101C35DAB
MICROCOMPUTER
DIG1~DIG17
SEG7~SEG42
47~63
64~100
Q6001
FL DRIVE
FL 901
FL DISPLAY
FROM POWER TRANSFORMER

A F/E MODULE (1/2) P.C.B (REP2981A)



(COMPONENT SIDE)

A F/E MODULE (2/2) P.C.B (REP2981A)

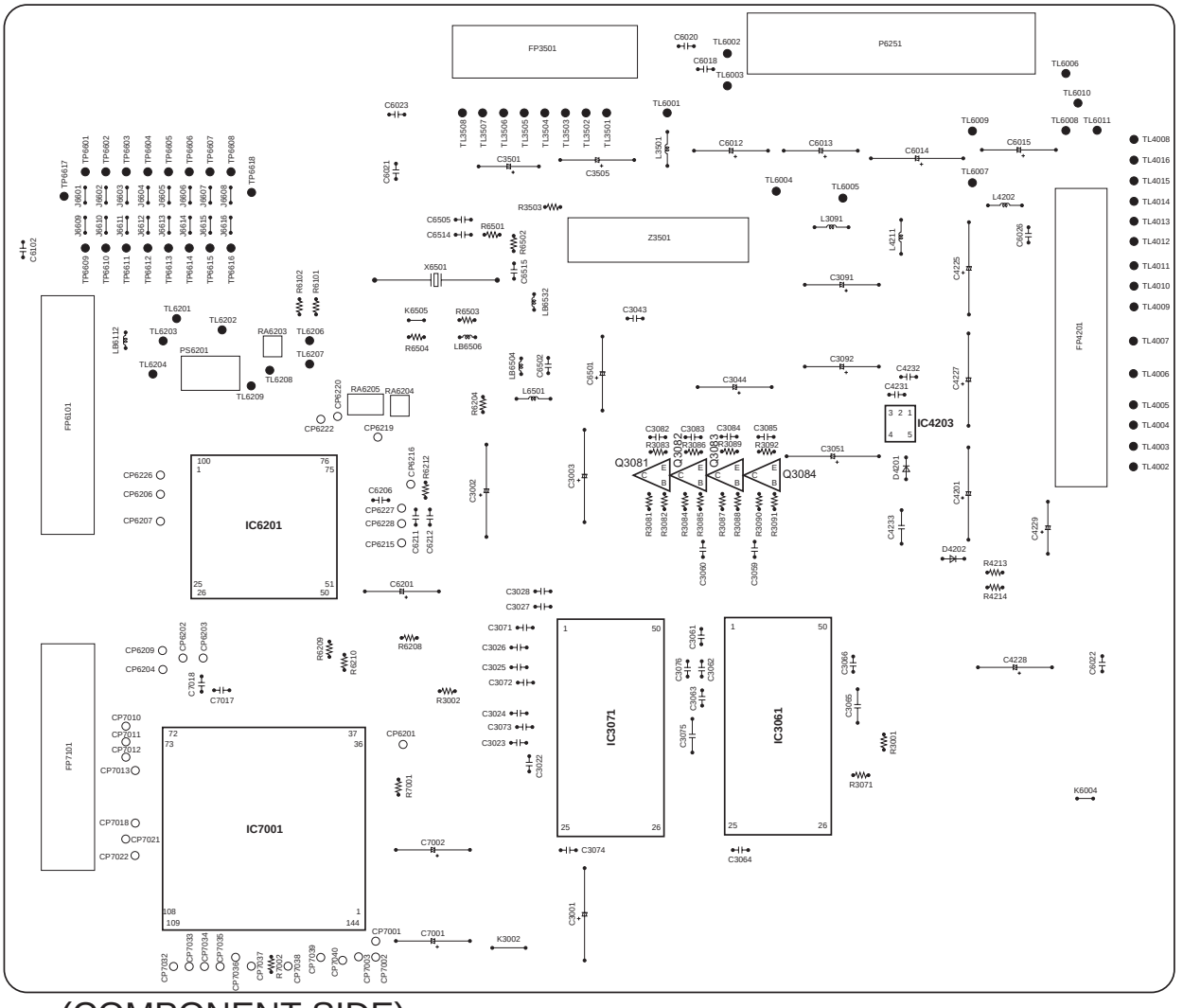


(FOIL SIDE)

A B C D E F G

1 2 3 4 5 6 7 8 9

B B/E MODULE (1/2) P.C.B (REP2978EB)

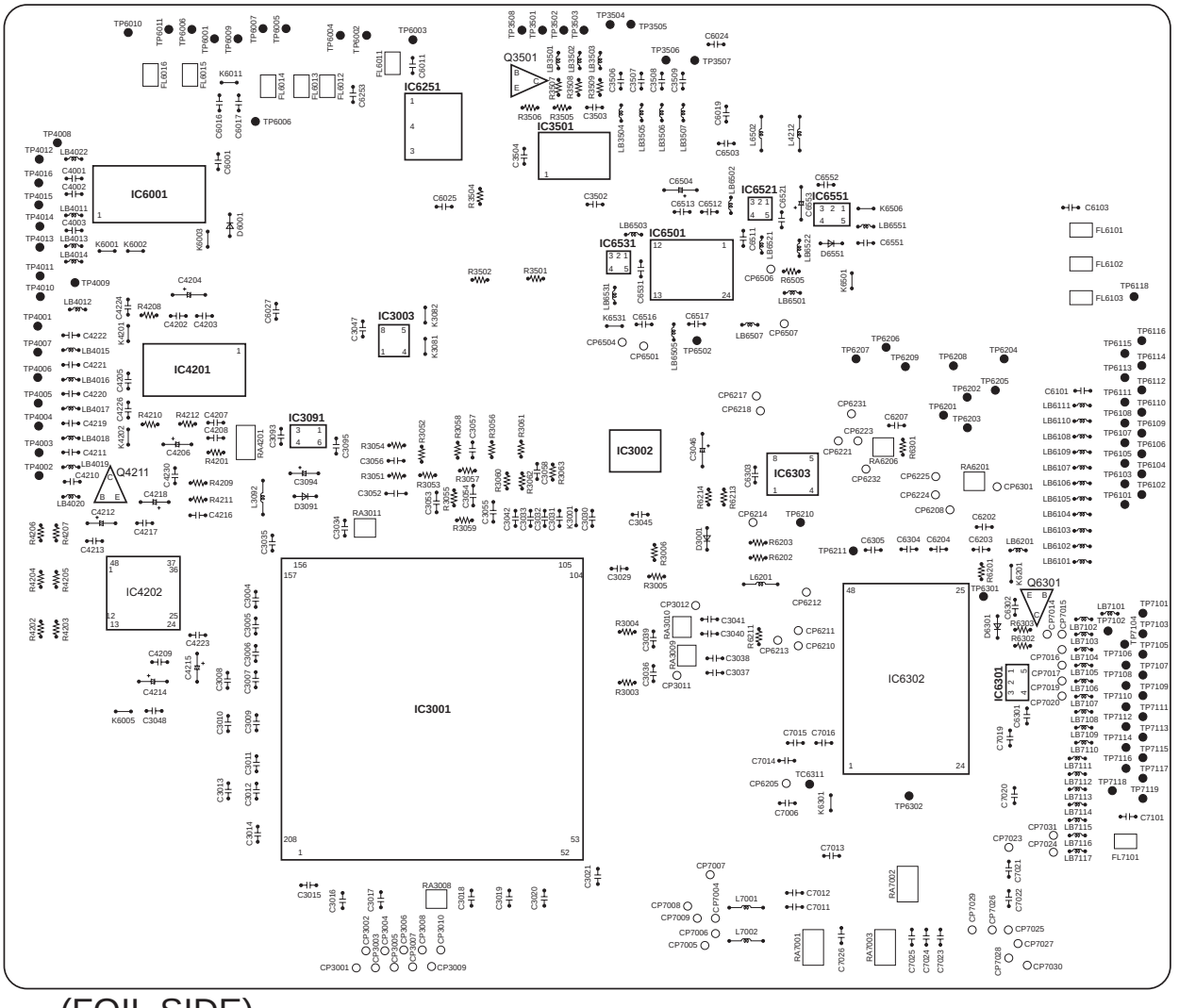


(COMPONENT SIDE)

A B C D E F G

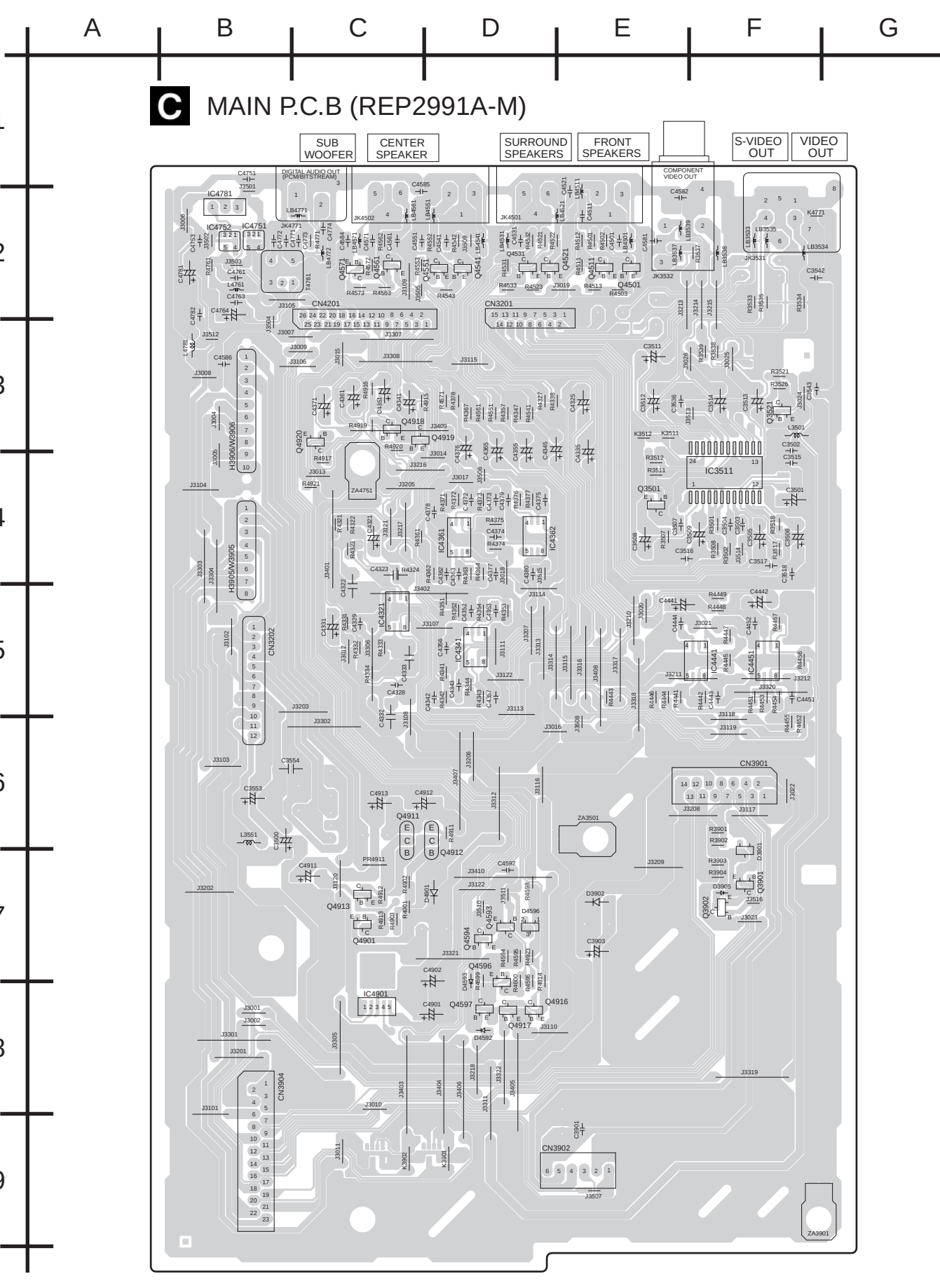
1 2 3 4 5 6 7 8 9

B B/E MODULE (2/2) P.C.B (REP2978EB)

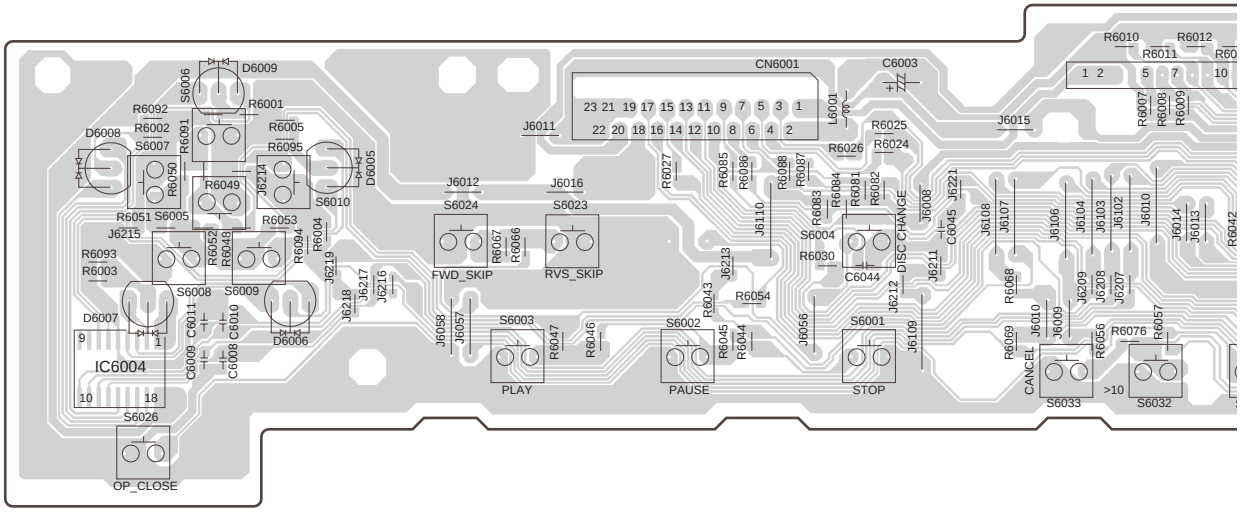


(FOIL SIDE)

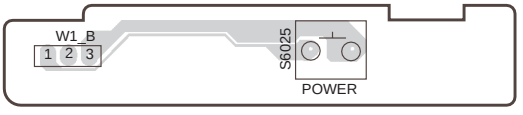
C MAIN P.C.B (REP2991A-M)



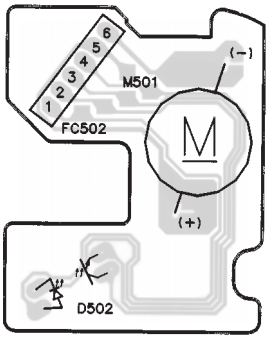
D PANEL P.C.B (REP2993A-S)



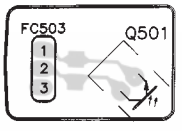
E POWER-ON SWITCH P.C.B (REP2993A-S)



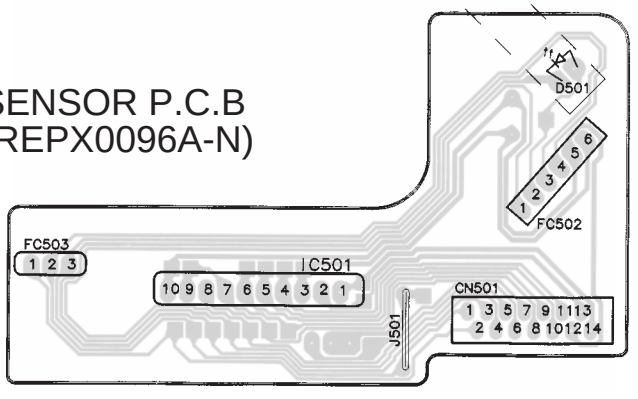
G TRAY MOTOR P.C.B (REPX0096A-N)

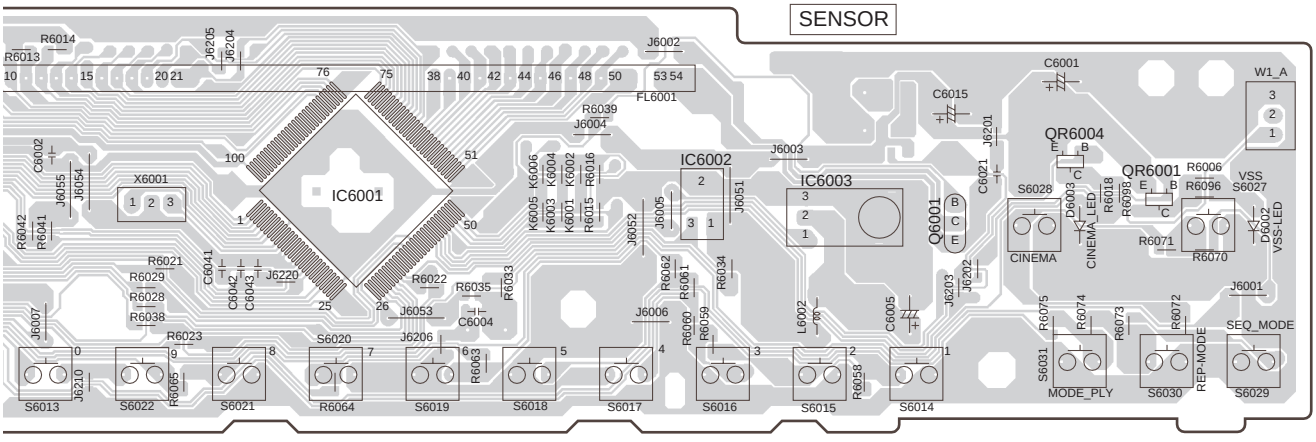


H PHOTO TRANSISTOR P.C.B (REPX0096A-N)

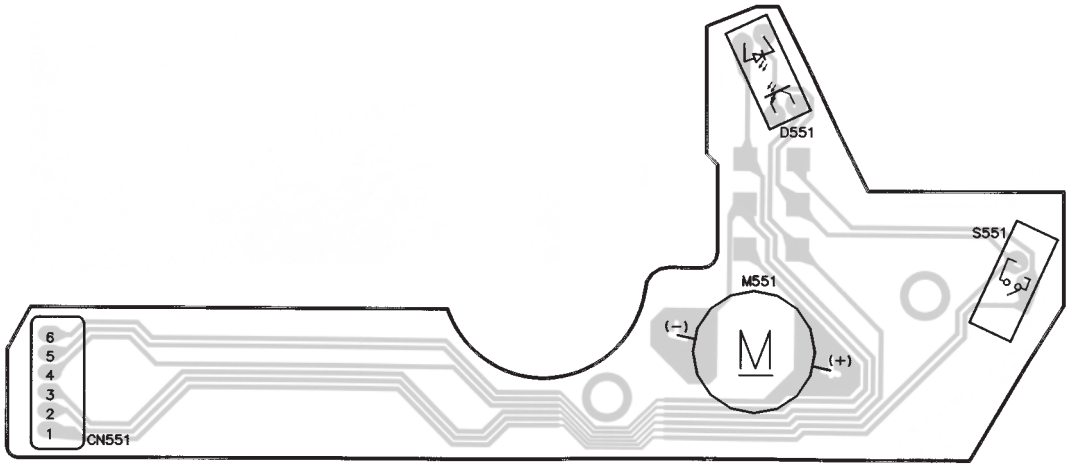


F SENSOR P.C.B (REPX0096A-N)





I LOADING MOTOR P.C.B (REPX0095A-N)



J POWER P.C.B (REP2992A-P)